ONKYO_®

DVD Receiver

DR-L50

Instruction Manual

Thank you for purchasing the Onkyo DVD Receiver. Please read this manual thoroughly before making connections and turning on the power. Following the instructions in this manual will enable you to obtain optimum performance and listening enjoyment from your new DVD Receiver. Please retain this manual for future reference.





Contents

Before Using Your DVD Receiver

Getting Started

Setup

Basic Operation

Advanced Operation

Other

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK. DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION:

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.





The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Important Safety Instructions

- 1. Read Instructions All the safety and operating instructions should be read before the appliance is operated.
- Retain Instructions The safety and operating 2. instructions should be retained for future reference.
- Heed Warnings All warnings on the appliance and in 3 the operating instructions should be adhered to.
- 4 Follow Instructions – All operating and use instructions should be followed.
- 5. Cleaning - Unplug the appliance from the wall outlet before cleaning. The appliance should be cleaned only as recommended by the manufacturer.
- Attachments Do not use attachments not 6. recommended by the appliance manufacturer as they may cause hazards.
- Water and Moisture Do not use the appliance near 7. water -for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.
- Accessories Do not place the appliance on an 8. unstable cart, stand, tripod, bracket, or table. The appliance may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the appliance. Any mounting of the appliance should

follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.



PORTABLE CART WARNING

- An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
- 10. Ventilation Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the appliance and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the appliance on a bed, sofa, rug, or other similar surface. The appliance should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided. There should be free space of at least 20 cm (8 in.) and an opening behind the appliance.
- 11. Power Sources The appliance should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company.
- 12. Grounding or Polarization The appliance may be equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

- 13. Power-Cord Protection Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
- 14. Outdoor Antenna Grounding If an outside antenna or cable system is connected to the appliance, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna-discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See FIGURE 1
- 15. Lightning For added protection for the appliance during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the appliance due to lightning and power-line surges.
- 16. Power Lines An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
- 17. Overloading Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
- 18. Object and Liquid Entry Never push objects of any kind into the appliance through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the appliance.
- 19. Servicing Do not attempt to service the appliance yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- 20. Damage Requiring Service Unplug the appliance form the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - When the power-supply cord or plug is damaged,
 - B. If liquid has been spilled, or objects have fallen into the appliance,
 - If the appliance has been exposed to rain or water.
 - D. If the appliance does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a gualified technician to restore the appliance to its normal operation,
 - E. If the appliance has been dropped or damaged in any way, and
 - F. When the appliance exhibits a distinct change in performance - this indicates a need for service.

2

- 21. **Replacement Parts** When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- 22. **Safety Check** Upon completion of any service or repairs to the appliance, ask the service technician to perform safety checks to determine that the appliance is in proper operation condition.
- Wall or Ceiling Mounting The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
- Heat The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- 25. Liquid Hazards The appliance should not be exposed to dripping or splashing and no objects filled with liquids, such as vases should be placed on the appliance.

Precautions

For British model

Replacement and mounting of an AC plug on the power supply cord of this unit should be performed only by qualified service personnel.

IMPORTANT

The wires in the mains lead are coloured in accordance with the following code:

- Blue: Neutral
- Brown: Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

IMPORTANT

A 5 ampere fuse is fitted in this plug. Should the fuse need to be replaced, please ensure that the replacement fuse has a rating of 5 amperes and that it is approved by ASTA or BSI to BS1362. Check for the ASTA mark or the BSI mark on the body of the fuse.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY. THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMPERE SOCKET.

If in any doubt, please consult a qualified electrician.

For Canadian model

This class B digital apparatus complies with Canadian ICES-003.

For models having a power cord with a polarized plug:

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

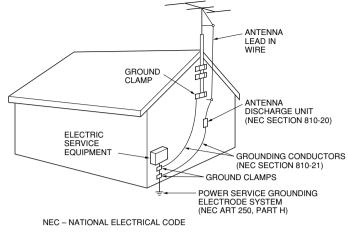
Modèle pour les Canadien

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Sur les modèles dont la fiche est polarisee:

ATTENTION: POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND. FIGURE 1:

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE, ANSI/NFPA 70



S2898A

For U.S. model

The laser is covered by a housing which prevents exposure during operation or maintenance. However, this product is classified as a Laser Product by CDRH (Center for Devices and Radiological Health) which is a department of the Food and Drug Administration. According to their regulations 21 CFR section 1002.30, all manufactures who sell Laser Products must maintain records of written communications between the manufacturer, dealers and customers concerning radiation safety. If you have any complaints about instructions or explanations affecting the use of this product, please feel free to write to the address on the back page of this manual. When you write us, please include the model number and serial number of your unit.

In compliance with Federal Regulations, the certification, identification and the period of manufacture are indicated on the rear panel.

FCC INFORMATION FOR USER

CAUTION:

The user changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- · Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- · Consult the dealer or an experienced radio/TV technician for help.

Note to CATV system installer:

This reminder is provided to call the CATV system installer's attention to Section 820-40 of the NEC which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

DANGER:

VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK FAILED OR DEFEATED. DO NOT STARE INTO BEAM.

CAUTION:

THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

This unit contains a semiconductor laser system and is classified as a "CLASS 1 LASER PRODUCT." So, to use this model properly, read this Instruction Manual carefully. In case of any trouble, please contact the store where you purchased the unit. To prevent being exposed to the laser beam, do not try to open the enclosure.

For European model



This label on the rear panel states that:

- 1. This unit is a CLASS 1 LASER PRODUCT and employs a laser inside the cabinet.
- 2. To prevent the laser from being exposed, do not remove the cover. Refer servicing to qualified personnel.

1. Regional Restriction Codes (Region Number)

Regional restriction codes are built into DVD Receivers and DVD videos for each sales region. If the regional code of the DVD Receiver does not match one of the regional codes on the DVD video, playback is not possible.

The regional number can be found on the rear panel of the DVD Receiver. (e.g. for Region 2)

2. About This Manual

This manual explains the basic procedures for operating the DVD Receiver. Some DVD videos do not support the full potential of the DVD technology. Your DVD Receiver may therefore not respond to all operating commands. Refer to instruction notes on discs. A "\scale" mark may appear on the TV screen during operation. It means that the operation is not permitted by the DVD Receiver or

3. Recording Copyright

Recording of copyrighted material for other than personal use is illegal without permission of the copyright holder.

4. AC Fuse

the disc.

The fuse is located inside the chassis and is not user-serviceable. If power does not come on, contact your Onkyo authorized service center.

5. Power

WARNING

BEFORE PLUGGING IN THE UNIT FOR THE FIRST TIME, READ THE FOLLOWING SECTION CAREFULLY.

The voltage of the available power supply differs according to country or region. Be sure that the power supply voltage of the area where the unit will be used meets the required voltage (AC 120V 60Hz or AC 230-240V 50Hz) written on the rear panel.

6. Do not touch the unit with wet hands

Do not handle the unit or power cord when your hands are wet or damp. If water or any other liquid enters the case, take the unit to an authorized service center for inspection.

7. Location of the unit

- Place the unit in a well-ventilated location.
- Take special care to provide plenty of ventilation on all sides of the unit especially when it is placed in an audio rack. If ventilation is blocked, the unit may overheat and malfunction.
- Do not expose the unit to direct sunlight or heating units as the unit's internal temperature may rise and shorten the life of the pickup.
- Avoid damp and dusty places and places directly affected by vibrations from the speakers. In particular, avoid placing the unit on or above one of the speakers.
- Be sure the unit is placed in a horizontal position. Never place it on its side or on a slanted surface as it may malfunction.
- When you place the unit near a TV, radio, or VCR, the playback picture may become poor and the sound may be distorted. In this case, place the unit away from the TV, radio, or VCR.

8. Care

From time to time you should wipe the front and rear panels and the cabinet with a soft cloth. For heavier dirt, dampen a soft cloth in a weak solution of mild detergent and water, wring it out dry, and wipe off the dirt. Following this, dry immediately with a clean cloth. Do not use rough material, thinners, alcohol or other chemical solvents or cloths since these could damage the finish or remove the panel lettering.

9. Notes on Handling

- When shipping the unit, use the original shipping carton and packing materials. For maximum protection, repack the unit as it was originally packed at the factory.
- Do not use volatile liquids, such as insect spray, near the unit. Do not leave rubber or plastic products in contact with the unit for a long time. They will leave marks on the finish.
- The top and rear panels of the unit <u>may become warm after a</u> long period of use. This is not a malfunction.
- When the unit is not in use, be sure to remove the disc and turn off the power.
- If you do not use the unit for a long period, the unit may not function properly in the future. Turn on and use the unit occasionally.

10. To Obtain a Clear Picture

The unit is a high technology, precision device. If the optical pickup lens and disc drive parts are dirty or worn down, the picture quality becomes poor. To obtain a clear picture, we recommend regular inspection and maintenance (cleaning or parts replacement) every 1,000 hours of use depending on the operating environment. For details, contact your nearest dealer.

11. Notes on Moisture Condensation Moisture condensation damages the unit. Please read the following carefully.

What is moisture condensation?

Moisture condensation occurs, for example, when you pour a cold drink into a glass on a warm day. Drops of water form on the outside of the glass. In the same way, moisture may condense on the optical pick-up lens inside the unit, one of the most crucial internal parts of the unit.

• Moisture condensation occurs in the following cases.

- When you bring the unit directly from a cold place to a warm place.
- When you use the unit in a room where you just turned on the heater, or a place where the cold wind from the air conditioner directly hits the unit.
- In summer, when you use the unit in a hot and humid place just after you move the unit from an air conditioned room.
- When you use the unit in a humid place.
- Do not use the unit when moisture condensation may occur. If you use the unit in such a situation, it may damage discs and internal parts. Remove the disc, connect the power cord of the unit to the wall outlet, turn on the unit, and leave it for two or three hours. After a few hours, the unit will have warmed up and evaporated any moisture. Keep the unit connected to the wall outlet and moisture condensation will seldom occur.

Table of Contents

Important Safety Instructions/Precautions/Table of Contents 2/3/5

Getting Started

Features	6
Supplied Accessories	7
Notes on Discs	8
Index to Parts and Controls	10
Preparing the Remote Controller	17
Connecting to a TV (Other than European model)	18
Connecting to a TV (European model)	19
Connecting Speakers	20
Positioning Speakers	21
Connecting to Audio/Video Equipment	22
RI Connection for the Onkyo MD Recorder or Cassette Tape Deck	23
Making Antenna Connections	24

Setup

Connecting the Power/Turning on the DVD Receiver	. 26
Speaker Setup	. 28

Basic Operation

Getting Started Using Your DVD Receiver	31
Listening to the Radio	37
Playing the Connected Source	40
Various Functions Common to all the Sources	42
Using the Timer Functions	43
Enjoying the Sound Effects	48

Advanced Operation

Locating a Specific Title/Folder/Chapter/Track/Location	54
Repeat Play	56
Still Frame/Slow Play	57
Playing in a Favourite Order	58
Random Play	62
Selecting the Audio/Subtitle Language	63
Continuing Playback from a Specified Location (Last Memory)	64
Condition Memory/Selecting the Camera Angle	65
Viewing Disc Information	66
Customizing the Function Settings	68
Recording Using the Connected Equipment	82
Controlling a TV connected to the DVD Receiver	83

Other

Troubleshooting	84
Specifications	

Features

Receiver Features

- 25 watts per channel into 6 ohms (FTC)
- 21 watts per channel into 6 ohms (DIN)
- 26 watts per channel into 6 ohms (EIAJ)
- 96 kHz/24-Bit DAC System
- DTS* & Dolby** Digital Decoders
- Acoustic Control
- 1 Digital Input/1 Output
- Subwoofer Preout
- 2 Audio Inputs/1 Output
- 1 S-Video Input
- Theater-Dimensional***
- 30 FM/AM Random Presets
- IPM (Intelligent Power Management)
- Sleep Timer
- Timer Play

DVD/CD Player Features

- DTS, Dolby Digital, and PCM Compatible
- Component-Video Output (Other than European model)
- SCART connector (European model)
- Progressive Scan (Other than European model)
- 27 MHz/10-Bit Video DAC
- Plays DVDs, MP3 CDs, CD-Rs, CD-RWs, Video CDs and Audio CDs
- High-Resolution On-screen Display
- Program Memory Playback
- Auto Last Play
- Dual-Wavelength Optical Pickup
- Sand-Blasted Aluminum Front Panel

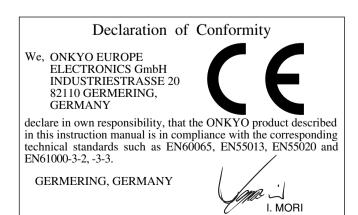
Other Features

- Full Function RI-compatible Remote Control
- Preprogrammed Remote Control

Memory Preservation

This unit does not require memory preservation batteries. A built-in memory power backup system preserves the contents of memory during power failures and even when the power cord is unplugged.

The power cord must be plugged in order to charge the backups system. The memory preservation period after the unit has been turned off varies depending on climate and placement of the unit. On average, memory contents are protected over a period of a few weeks after the time the unit has been turned off. This period is shorter when the unit is exposed to a very humid climate.

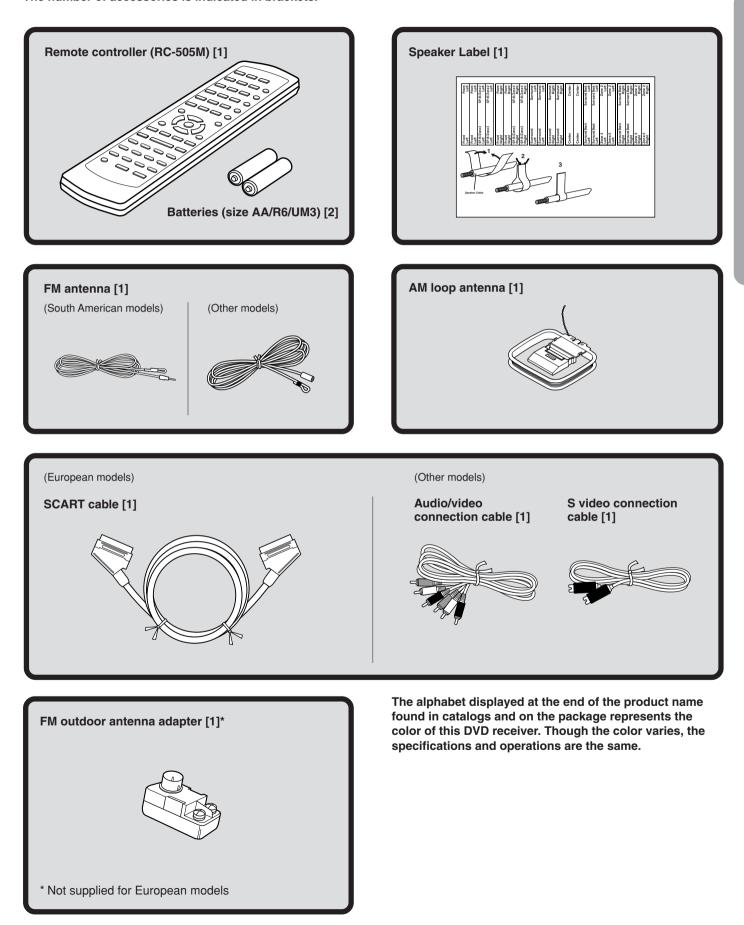


* "DTS" and "DTS Digital Surround" are trademarks of Digital Theater Systems, Inc.

- ** Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories. Confidential Unpublished Works. ©1992-1997 Dolby Laboratories. All rights reserved.
- *** "Theater-Dimensional" is a trademark of Onkyo Corporation.

Supplied Accessories

Make sure your box contains everything listed below. If any pieces are missing, contact your nearest Onkyo service station. The number of accessories is indicated in brackets.



Notes on Discs

This section shows you how to handle, clean, and store discs.

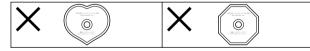
Playable Discs

This DVD Receiver can playback the following discs.

	Disc mark	
DVD videos		
VIDEO CDs	DIGITAL VIDEO	
Audio CDs	COMPACT ⁻¹ DIGITAL AUDIO Recordable	COMPACT ⁻¹ DIGITAL AUDIO ReWritable

*1 This unit can play CD-R and CD-RW discs recorded in CD Audio or Video CD format, or with MP3 audio files. However, there may be some discs that cannot be played back with this unit. The causes of this impossibility include incompletion of disc finalization and the recording characteristics of the recorder as well as the properties, damage or stain of the disc in use and stain or condensation on the pickup lens of this unit. For details, please refer to the instruction manual of the recorder.

- You cannot playback discs other than those listed above.
- You cannot play discs such as DVD-RAM, DVD-RW, DVD-Audio, Photo CD, CD-G etc., even if the marks in the above table are labeled on those discs.
- This DVD Receiver uses the PAL/NTSC color system, and cannot playback DVD videos recorded in any other color system (SECAM, etc.).
- Avoid using heart-shaped or octagonal discs. Playing irregularly shaped discs may damage the internal mechanism of the DVD Receiver.



 Do not use discs that have residue from adhesive tape, rental discs that have peeling labels, or discs that have custom labels or stickers. Otherwise, you may not be able to eject the discs or the DVD Receiver may become inoperative.

About VIDEO CDs

This DVD Receiver supports VIDEO CDs equipped with the PBC (Version 2.0) function. (PBC is the abbreviation of Playback Control.)

You can enjoy two playback variations depending on the type of disc.

- VIDEO CD not equipped with PBC function (Version 1.1) Sound and movies can be played on this DVD Receiver in the same way as an audio CD.
- VIDEO CD equipped with PBC function (Version 2.0) In addition to operation of the VIDEO CD not equipped with the PBC function, you can enjoy playback with interactive software and search function using the menu displayed on the TV screen (Menu Playback). Some of the functions described in this Instruction Manual may not work with some discs.

MP3 compatibility information

- The CD-ROM must be ISO9660 compatible.
- Files should be MPEG1 Audio Layer 3 format, 44.1 or 48kHz, fixed bit-rate. Incompatible files will not play and "UNPLAYABLE" will be displayed.
- This DVD Receiver is not compatible with variable bit-rate (VBR) files. Be sure to make MP3 CD with fixed bit-rate setting.
- This system only plays tracks that are named with the file extension ".mp3" or ".MP3".
- This system is not compatible with multi-session discs. If you try an play a multi-session disc, only the first session will be played.
- Use CD-R or CD-RW media for recording your MP3 files. The disc must be finalized in order to play.
- Audio encoded at 128kbps should sound close to regular audio CD quality. Although this system will play lower bitrate MP3 tracks, the sound quality becomes noticeably worse at lower bit-rates.
- Only the first 8 characters of folder and track names (excluding the ".mp3" extension) are displayed.
- This system can recognize a maximum of 250 folders and 250 tracks. Discs containing more than 250 folders or tracks will not play.

Notes on Copyright

It is forbidden by law to copy, broadcast, show, broadcast on cable, play in public, and rent copyrighted material without permission.

DVD videos are copy protected, and any recordings made from these discs will be distorted.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Handling Discs

• Do not touch the playback side of the disc.



· Do not attach paper or tape to discs.



Cleaning Discs

• Fingerprints and dust on the disc cause picture and sound deterioration. Wipe the disc from the center outwards with a soft cloth. Always keep the disc clean.



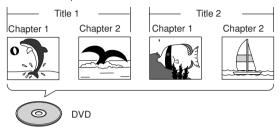
- If you cannot wipe off the dust with a soft cloth, wipe the disc lightly with a slightly moistened soft cloth and finish with a dry cloth.
- Do not use any type of solvent such as thinner, benzine, commercially available cleaners or antistatic spray for vinyl LPs. It may damage the disc.

Storing Discs

- Do not store discs in a place subject to direct sunlight or near heat sources.
- Do not store discs in places subject to moisture and dust such as a bathroom or near a humidifier.
- Store discs vertically in a case. Stacking or placing objects on discs outside of their case may cause warping.

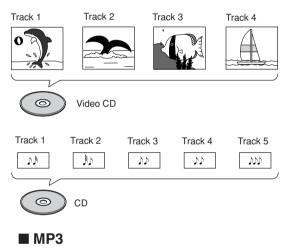
Differences in Disc Composition

All discs are divided up into smaller, more manageable sections so that you can find specific content more easily. DVDs are divided into one or more titles. Each title may be further divided into several chapters. Occassionally, a chapter may contain index points, effectively dividing the chapter up into several parts, too.

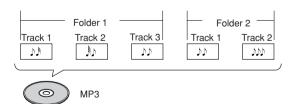


■ Video CD/CD

Video CDs and CDs are divided into a number of tracks. In rare cases, a track may contain a number of index points, effectively dividing the track up into several parts.



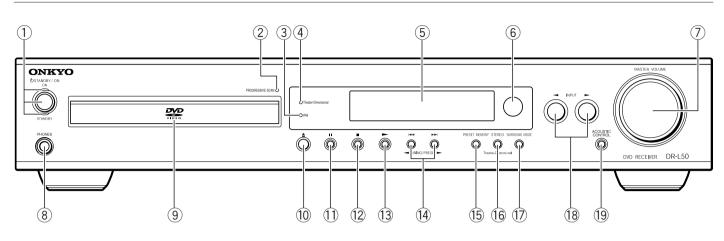
MP3 (MPEG1 Audio Layer 3) is a compressed audio file format. Files are recognized by their file extension ".mp3" or ".MP3". Folders that contain MP3 files are automatically numbered F_001, F_002, etc. Tracks within folders are automatically numbered T_001, T_002, etc.



Index to Parts and Controls

For operational instructions, refer to the page indicated in brackets.

Front panel



- ① STANDBY/ON button, ON, STANDBY indicators [26] When STANDBY/ON button is pressed to ON, the DVD Receiver turns on. The STANDBY indicator turns off, and the ON indicator and the display lights up. Pressing the button again returns the DVD Receiver to the standby state. This state turns off the display, disables control functions.
- ② Progressive Scan indicator (other than European models only) [71]

Lights up when the DVD Receiver is set to progressive-scan video.

- ③ IPM (Intelligent Power Management) indicator [27] Lights up when the IPM function is active.
- ④ Theater-Dimensional indicator [50] Lights up while in the Theater-Dimensional mode.
- (5) Display [11, 42]
- (6) Remote control sensor [17] Point the remote control toward the remote sensor to operate the DVD Receiver.
- ⑦ MASTER VOLUME control [42] The MASTER VOLUME dial is used to control the volume level.
- B PHONES jack [42] This is a standard stereo jack for connecting stereo headphones.
- (9) Disc tray [31, 36] When loading a disc, place discs in the disc tray with the label side facing up.
- 10 **A** button [31, 36]

Press to open and close the disc tray.

① II button [31]

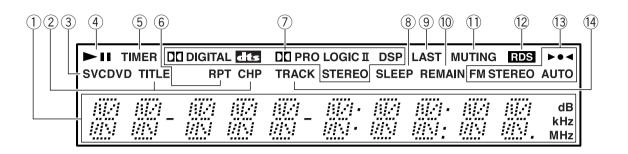
Press to pause playback. Press again to resume playback.

12
button [36]

Press to stop playback. Pressing once enables playback to resume from a point shortly before the location where it was stopped. Pressing twice causes the disc to return to the beginning of the disc when playback starts again. (3 ► button [31, 35, 36] Press to start or resume playback.

- Image: Image
- PRESET MEMORY button [37-40]
 Press to assign the radio station that is currently tuned in to a preset channel or delete a previously preset station.
- (6 **STEREO/Theater-Dimensional button [50, 51]** Press to switch the listening mode between "STEREO" and "THEATER-DIMENSIONAL".
- ⑦ SURROUND MODE button [51] Press to select a surround mode.
- 18 INPUT ◄/► buttons [37, 39, 40] Press to select the input source other than DVD.
- ① ACOUSTIC CONTROL button and indicator [53] Press to change the acoustic mode to boost the super bass/high frequency sounds. When acoustic control mode is on the "A.CTRL 1 or 2" indicator lights.

■ Display



1 Multipurpose display

- ② TITLE, CHP indicators [54, 58, 66, 67] Indicate display mode of the current title or chapter of DVD.
- ③ Inserted disc indicator [31] Indicates the type of current disc that is loaded.
- ④ ►, II indicators [31] Lights up in play or pause mode.
- (5) TIMER indicator [44] Lights up when the respective timer is set.
- (6) RPT indicator [56] Illuminates during repeat playback. Also RPT indicator illuminates during A-B repeat playback.
- ⑦ Source/Listening mode indicators [40, 49, 51] One of the source indicators lights to show the format of the current source.
- ⑧ SLEEP indicator [44] Lights up when the sleep timer is active.

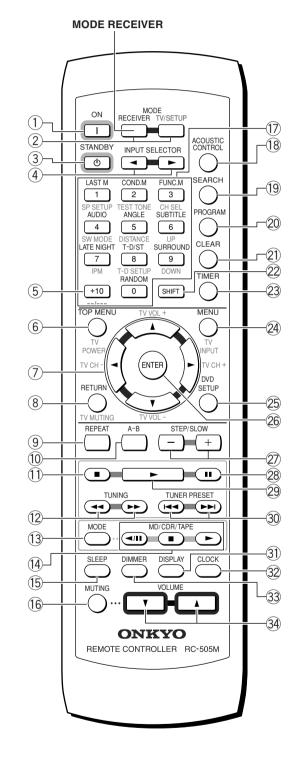
- IAST indicator [64] Lights up when a disc which contains a memorized Last Memory point is loaded.
- 10 REMAIN indicator [66, 67] Lights up when time remaining is displayed.
- MUTING indicator [42]
 Flashes when the mute function is active.
- 12 RDS indicator (European models only) [39] Lights up when an RDS station is received.
- ③ ►●◀, AUTO, FM STEREO indicators [37] Indicate the reception mode.
- ITRACK indicator [54, 58, 66, 67] Lights up when the current track of Video CD or CD is displayed.

■Remote controller

This is a multi-function remote controller, so many of the buttons have two or more functions. To use all of these functions, proceed as follows:

- 1 To control this unit or a connected Onkyo MD Recorder, CD Recorder or Cassette Tape Deck, first press the MODE RECEIVER button.
- 2 To control additional functions, press the SHIFT button, then one of the numeric buttons (0-9) within 10 seconds.
- 3 To make settings or control a TV first press the MODE TV/SETUP button. To control the TV, you must first Pre-Program the TV signal. For Programming instructions see page 83.

Press MODE RECEIVER first to use these buttons.



(1) ON button [26, 32, 68] (7) Number buttons (1-9, +10, 0) [31, 53, 58-61, 83] Turns on the DVD Receiver. Use to perform direct title/folder and chapter/track searches, and to input numerical values. ② MODE RECEIVER, MODE TV/SETUP buttons [15] (B ACOUSTIC CONTROL button [53] For switching the button functions. Press to change the acoustic mode to boost the super bass/high 3 STANDBY button [36, 45, 47, 64] frequency sounds. Put the DVD Receiver in standby. (19) SEARCH button [54] ④ INPUT SELECTOR </ > buttons [37, 39-41] Press to perform a title/folder, chapter/track or elapsed time search. Press to select the input source. 20 PROGRAM button [58-61] (5) +10/--/--- button [41.83] You can program titles, chapters or tracks to play back in desired Press to input numbers over 10. order. Programs can be a maximum of 24 steps. 6 TOP MENU button [34, 54] 21 CLEAR button [55, 56, 61, 63-65] Press to call up the top menu programmed on the DVD. Depending Works in conjunction with a number of player functions. Use to cancel repeat and random playback, and to edit programs. on the DVD, the top menu may be identical to the DVD menu. ⑦ Cursor (◄/►/▲/▼) [31, 32, 43-47, 58-61, 68, 81] 22 SHIFT button [14, 50, 51, 53, 62-65, 81] Use to move through the options on menu screens. Press to switch the button function. ⑧ RETURN button [34, 68, 77, 79, 80] 23 TIMER button [43-47] Use to go one menu back (current settings are maintained). Use Press to activate a timer function or to set a timer program. RETURN when you do not want to change the option setting in a menu. 24 MENU button [34, 55, 63, 65] Use to display or close the DVD menu or MP3 Navigator screen. 9 REPEAT button [56] Use to set the repeat mode. 25 DVD SETUP button [32, 68, 81] Press when the DVD Receiver is in either play or stop mode to 10 A-B button [56] open and close the Setup screen. Press at the beginning and end of the section you want to repeat or to mark a location you want to return to. 26 ENTER button [31, 32, 43-47, 58-62, 81] Press to choose a selected item or function. ① ■ button [36] Press to stop playback (DVD). Pressing once enables playback to ② STEP/SLOW +/- buttons [57] resume from a point shortly before the location where it was Press STEP/SLOW +/- during playback to view still frame. Press stopped. Pressing twice causes the disc to return to the beginning and hold STEP/SLOW +/- during playback to view slow playback. In still frame, press STEP/SLOW + to advance DVDs and Video of the disc when playback starts again. CDs frame by frame and STEP/SLOW - to back up a few frames at 12 **◄◄/▶▶** buttons [35, 37] a time (DVD only). During playback of DVD and Video CD, press ►► to perform fast forward scanning or << to perform fast reverse scanning of DVD 28 II button [31, 34, 57] and Video CD. When a CD or MP3 is loaded, audio scanning is Press to pause disc playback. performed. When AM or FM is selected, press for tuning. 29 button [31, 34, 36, 54, 56-60, 62] (3) MODE button [37, 41] Press to start or resume playback. For FM input, press to switch between FM Stereo auto and mono. For MD or CD Recorder input, press to select play mode (Random 30 Idd/ buttons [35, 37, 39, 62] or Memory). During playback of DVD, CD and Video CD, press I do go back to a previous chapter/track and belt to advance to the next chapter/ (4) MD/CDR/TAPE buttons [41] track. When AM or FM is selected, press to select preset channels. Press to operate Onkyo MD Recorder, CD Recorder or Tape Deck.

I: Press to pause playback of a disc or to reverse playback of

a cassette tape.

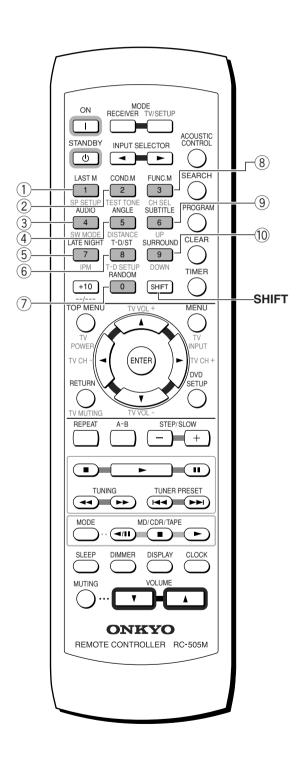
(5 SLEEP button [44] For setting the sleep timer.

(6 **MUTING button [42]** Activates the mute function.

Press to stop playback. Press to start playback.

- ③ DISPLAY button [29, 38, 43, 65, 66] Press to change the information being displayed.
 - 32 CLOCK button [43] Press to view the clock display.
 - 3 DIMMER button [42] For adjusting the brightness of the front display.
 - 34 VOLUME ▲/▼ buttons [42] For adjusting the volume.

Press SHIFT to use the gray buttons



① LAST M button [64]

You can resume DVD or Video CD playback from the point you last watched even if the disc is removed from the DVD receiver. Press LAST M during playback to set a Last Memory point. When you want to resume playback of that disc, press LAST M in the stop mode and playback starts from the memorized point. Last Memory locations can be stored for up to 5 DVDs and 1 Video CD.

② COND. M button [65]

You can store in memory the settings for up to 15 DVDs. Press COND. M during DVD playback to memorize the settings.

③ AUDIO button [63]

Press repeatedly to select one of the audio languages programmed on a DVD.

For Video CD and MP3, each press changes the audio output as follows.

 \rightarrow Stereo \rightarrow 1/L(Left) \rightarrow 2/R(Right)

④ ANGLE button [65]

Some DVDs are recorded with various camera angle playback options. Press ANGLE repeatedly to display different camera angles.

5 LATE NIGHT button [53]

Press to change the late night setting.

6 T-D/ST button [50, 51]

Press to switch the listening mode between "STEREO" and "THEATER-DIMENSIONAL".

⑦ RANDOM button [62] Press to play chapters/tracks in random order.

(8) FUNC. M button [81] You can store in memory up to 5 settings. Press FUNC. M to memorize and recall the settings.

9 SUBTITLE button [63]

Press repeatedly to select one of the subtitle languages programmed on DVD or to turn the subtitles off.

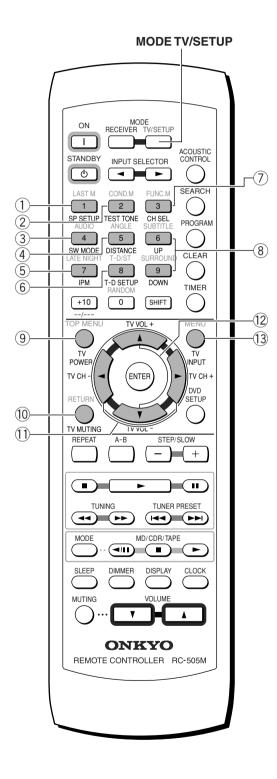
10 SURROUND button [51]

Press to select the surround mode.

Note

This unit automatically returns to RECEIVER mode 10 seconds after performing a SHIFT button operation (even if this unit was previously in TV/SETUP mode).

Press MODE TV/SETUP to use the gray buttons Other buttons have the same functions as when MODE RECEIVER button is pressed.



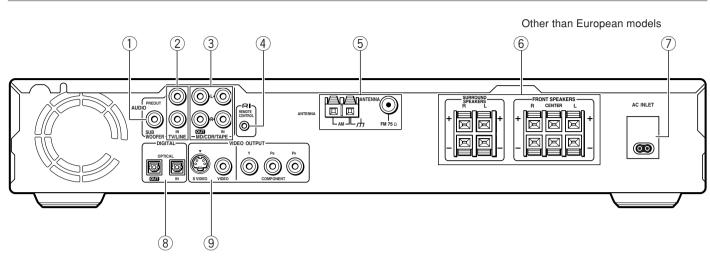
- ① SP SETUP button [28] Press to select the optimum speaker configuration.
- ② TEST TONE button [30, 52] Outputs a test tone for setting speaker levels.
- ③ SW MODE button [28] Press to select the subwoofer mode.
- ④ DISTANCE button [29] For setting the distances for each speaker.
- (5) IPM (Intelligent Power Management) button [27] Activates the IPM function.
- 6 **T-D SETUP [50]** For setting the T-D parameters.
- ⑦ CH SEL button [29, 30, 52] Selects a speaker for changing the speaker output level.
- 8 UP/DOWN buttons [29, 30, 50, 52] Press to adjust the value.

The following buttons must be pre-programmed (refer to page 83)

- IV POWER button Turns on the TV.
- 10 TV MUTING button Mutes the TV volume.
- 1) **TV CH +/- buttons** For selecting a TV channel.
- 12 TV VOL +/- buttons For adjusting the TV volume.
- TV INPUT button
 Press to select TV input.

Index to Parts and Controls

Rear panel



Shapes of jacks vary depending on the area in which it was purchased.

1 SUB WOOFER PRE OUT jack [20, 21]

This terminal is for connecting an active subwoofer.

2 TV/LINE IN jacks [18,19, 22]

This terminal is for connecting audio output terminals of TV, VCR or other video equipment.

③ MD/CDR/TAPE IN/OUT jacks [22]

These terminals are for connecting to the recording input and output terminals of an MD recorder, CD recorder or tape deck.

④ RIREMOTE CONTROL connector [23]

Connect the Onkyo components that have \mathbf{RI} connectors such as a MD recorder, and cassette tape deck using the \mathbf{RI} cables provided with them. When these components are interconnected, they can be controlled from the remote controller provided with the DVD Receiver.

After connecting the \mathbf{RI} connectors, check the operation of the remote controller buttons for use in controlling other components.

5 ANTENNA terminals [24, 25]

These terminals are for connecting the FM antenna and AM antenna.

6 FRONT SPEAKERS, CENTER SPEAKER and SURROUND SPEAKERS terminals [21]

Speaker terminals are provided for the front left, front right, center, surround left and surround right speakers. Speaker outputs are compatible with banana plug connectors.

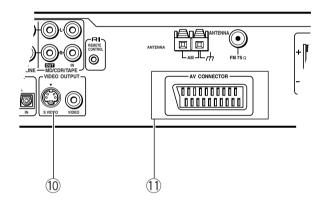
⑦ AC INLET [26]

Connect supplied AC power cord to this terminal.

8 DIGITAL OPTICAL IN/OUT jacks [18, 19, 22]

These are the digital audio input and output jacks. The digital input works in combination with the analog TV/LINE IN jacks. Connect the digital output from your TV or satellite tuner (MD player, etc.) to DIGITAL OPTICAL IN. Set the INPUT SELECTOR to TV/LINE IN to play the digital sound. Connect the DIGITAL OPTICAL OUT to a digital recording device (MD recorder, CD recorder, etc.). Do not connect the DIGITAL OPTICAL OVT if the digital output from the same component is connected to the DIGITAL OPTICAL IN.

European models



IDEO OUTPUT (VIDEO/S VIDEO/COMPONENT) jacks [18]

The monitor output includes RCA type, S video and component configurations. This output is for connecting television monitor or projector.

(European models)

10 VIDEO OUTPUT (VIDEO/S VIDEO) jacks [19]

The monitor output includes RCA type and S video. This output is for connecting television monitor or projector.

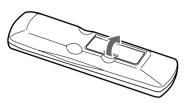
1) AV CONNECTOR terminal [19]

Use a 21-pin SCART cable to connect to a TV or monitor compatible with this type of connection. Both audio (2 channel stereo) and video (Video, S-video, and RGB) signals are output from the AV CONNECTOR.

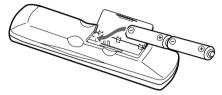
Preparing the Remote Controller

Inserting the Batteries

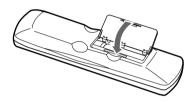
1) Detach the battery cover.



② Insert the two size AA/R6/UM3 batteries. Be sure to match the + and - ends of the batteries with the diagram inside the battery compartment.



3 Attach the battery cover.

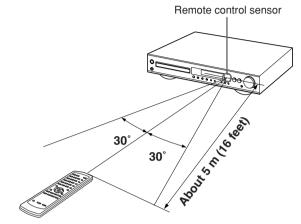


Notes

- Do not mix new batteries with old batteries or different kinds of batteries.
- To avoid corrosion, remove the batteries if the remote controller is not to be used for a long time.
- Remove dead batteries immediately to avoid damage from corrosion. If the remote controller does not operate smoothly, replace both batteries at the same time.
- The life of the supplied batteries is about six months but this varies depending on usage.

Pointing the remote controller in the right direction

Point the remote controller toward the remote control sensor.



Notes

- Place the unit away from strong light such as direct sunlight or inverted fluorescent light which can prevent proper operation of the remote controller.
- Using another remote controller of the same type in the same room or using the unit near equipment which uses infrared rays may cause operational interference.
- Do not put any object (such as a book) on the remote controller. The buttons of the remote controller may be pressed by mistake and drain the batteries.
- Make sure the audio rack doors do not have colored glass.
 Placing the unit behind such doors may prevent proper remote controller operation.
- If there is any obstacle between the remote controller and the remote control sensor, the remote controller will not operate.

Connecting to a TV (Other than European model)

Before connecting

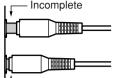
- · Refer also to the instruction manual of the TV.
- When you connect the DVD Receiver to the TV, be sure to turn off the power and unplug both the units from the plugs before making any connections.
- Connect the DVD Receiver to the TV directly. If you connect the DVD Receiver to a VCR, TV/VCR combination, or video selector, the playback picture may be distorted as DVD videos are copy protected.

Connecting to a TV (or projector)

Using the supplied audio/video connection cable, make audio connections from the TV/LINE IN L and R jacks to the corresponding audio output jacks on the TV. In the same manner, make video connections from the VIDEO OUTPUT "VIDEO" jack to the corresponding video input jack on the TV.

If your TV has a S video input jack and/or component video input jacks, make S video connection to the S VIDEO jack using supplied S video connection cable and/or make component video connection to the COMPONENT jacks using component video connection cable (not supplied). These connections allow you to enjoy higher quality picture playback. You can switch between [S1] and [S2] S-video output from the Setup menu on page 71.

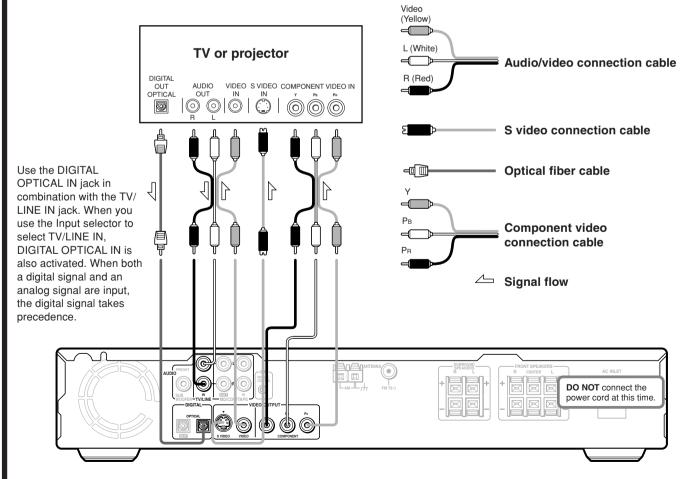
- Connect the plugs securely.
- Note that one audio/video connection cable and one S video connection cable are supplied.



Insert completely

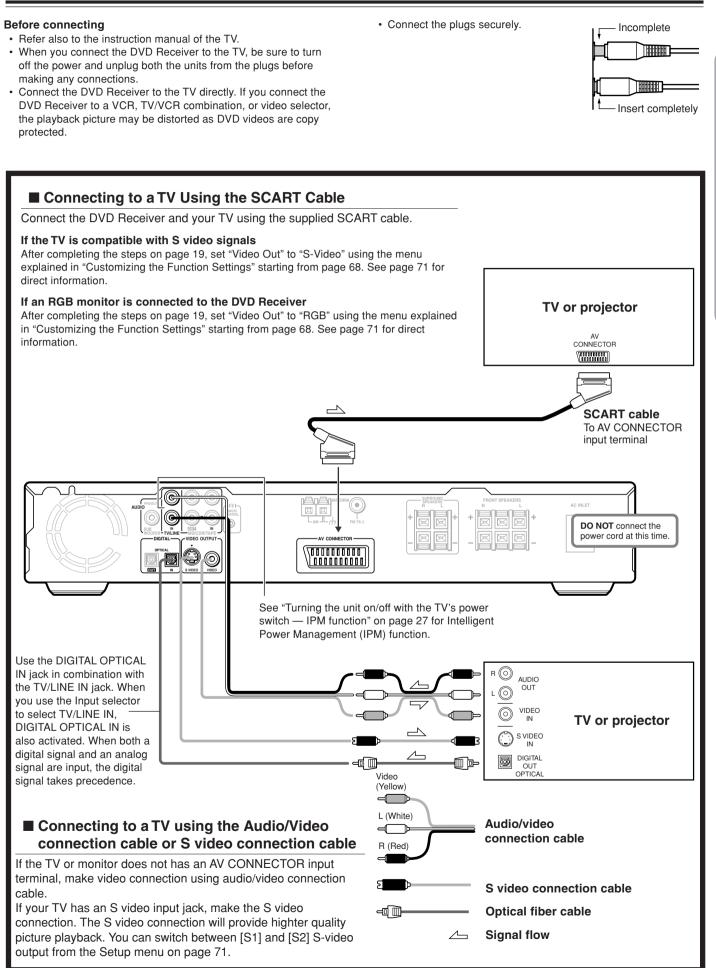
Notes

- Actual labels for component video inputs may vary depending on the TV manufacturer (ex. Y/CB/CR, Y/B-Y/R-Y, etc.).
- In some TVs, the color levels of the playback picture may be reduced slightly or the tint may change. In such a case, adjust the TV for optimum performance.



See "Turning the unit on/off with the TV's power switch - IPM function" on page 27 for Inteligent Power Management (IPM) function.

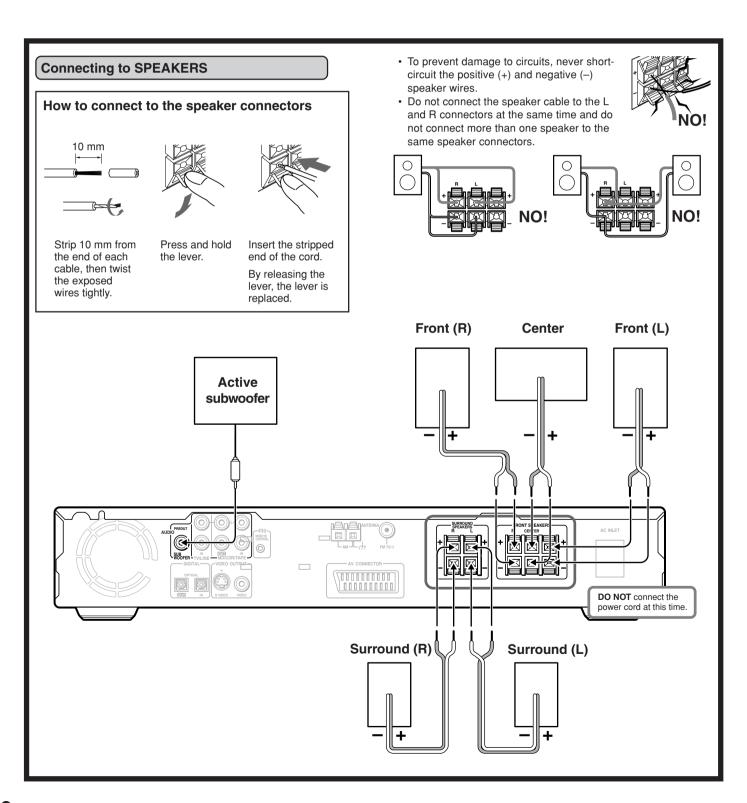
Connecting to a TV (European model)



Connecting Speakers

Before connecting

- Refer also to the instruction manuals of the speakers.
- This DVD Receiver is designed to reproduce optimum sound quality when speakers with the impedances specified below are connected. Please check the following information and choose speakers with appropriate impedances for the connections.
 Front speakers: 6 ohms min. per speaker
 Center speaker: 6 ohms min.
 Surround Speakers : 6 ohms min. per speaker



Positioning Speakers

Standard speaker placement of the speakers system

Speaker placement plays an important role in the reproduction of Surround sound. The placement of the speakers varies depending on the size of the room and the wall coverings used in the room. The illustration below shows an example of a layout for standard speaker placement. Refer to this example when you position the speakers in order to experience the best of Surround sound.

For ideal Surround effects, all speakers should be installed.

If a center speaker or subwoofer is not connected, the sound from the unused channel is properly distributed to the connected speakers in order to reproduce the best Surround sound possible.

Front

The center speaker reproduces a richer sound image by enhancing the perception of the sound's source and movement.

The left, right, and center speakers should face the seated listener and be placed at ear level.

Surround

The surround speakers reproduce the feel of a moving sound while creating the sensation of being in the middle of the action.

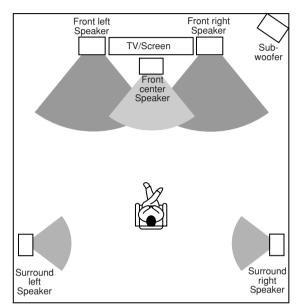
Place the left and right surround speakers 1 meter (3 feet) above the listener's ear level and facing toward the sides of the room, making sure that the listener is within the speakers' dispersion angle.

Subwoofer

Install a subwoofer with a built-in power amplifier for powerful bass sounds.

Place a subwoofer in the corner of a room or a similar position.

Refer to the speakers' instruction manuals for details.



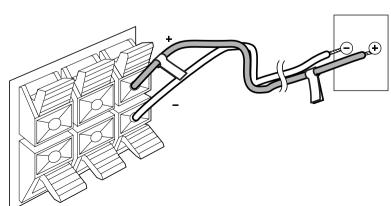
■ Using the provided speaker labels

The speaker terminals (+) of this unit are given different colors for ease of identification. By attaching the provided speaker labels to the speaker cables, the cables to be connected to the terminals can be identified easily.

Attach the speaker label of each color to the speaker cable for the corresponding terminal and connect the speaker cable to the terminal having the same color as the label attached to the cable.

The speaker terminals are colored as follows.

Front left speaker (+):	white
Front Right speaker (+):	red
Center speaker (+):	green
Surround left speaker (+):	blue
Surround right speaker (+):	gray



Connecting to Audio/Video Equipment

Before connecting

- · Refer also to the instruction manual of each component to be connected
- · When you connect the DVD Receiver to audio/video equipment, be sure to turn off the power and unplug all the units from the plugs before making any connections.
- About the DIGITAL OPTICAL OUT/IN connectors Remove the protective caps before making connections. When not in use, be sure to replace them.



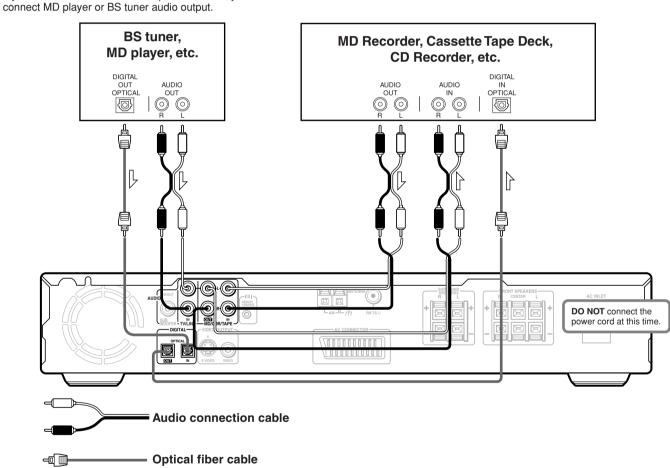
· Connect the plugs securely.

Incomplete

Insert completely

Caution

When connecting this unit's DIGITAL OPTICAL OUT jack to the digital in jack of a CD recorder or MD recorder, do not connect the CD or MD recorder's digital output to this unit's DIGITAL IN. A signal loop could be created which may damage the units.



∠ Signal flow

If you don't connect TV audio output to this unit, you can

R I Connection for the Onkyo MD Recorder, CD Recorder or Cassette Tape Deck

The **RI** terminal on the DVD Receiver is for connecting Onkyo MD recorder, CD recorder or Cassette tape deck equipped with the same **RI** terminal. When an Onkyo component is **RI** -connected, you can point the remote controller supplied with the DVD Receiver at the sensor on the DVD Receiver and operate that component without having to switch remote controllers. In addition, by connecting components to the **RI** terminal, you can also perform the system operation given below.

To connect components using the **RI** terminal, simply connect a **RI** cable from this **RI** terminal to the **RI** terminal of the other component. An **RI** cable with a 3.5 mm (1/8 inch) miniature two-conductor plug comes with every cassette tape deck, compact disc recorder and MD recorder that has an **RI** terminal.

Power on/ready function

When the DVD Receiver is in the standby state, if an \mathbf{R} I-connected component is turned on, then the DVD Receiver also turns on and the input source selected at this unit automatically switches to that component.

Direct change function

When the play button is pressed on an \mathbf{R} I-connected component, the input source selected at the this unit automatically changes to that component.

Program Timer

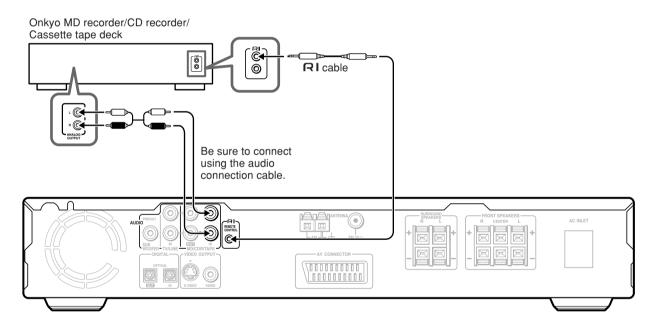
You can operate timer playback and recording using this unit. Sleep Timer

You can fall asleep to a music/radio program using the timer. **Power off function**

When the DVD Receiver is placed in the standby state, all **R** connected components are automatically put in standby mode.

Note

Please change the name displayed by the input selector to match the connected component (see 'Changing the "MD" display to match the connected source' on page 40).

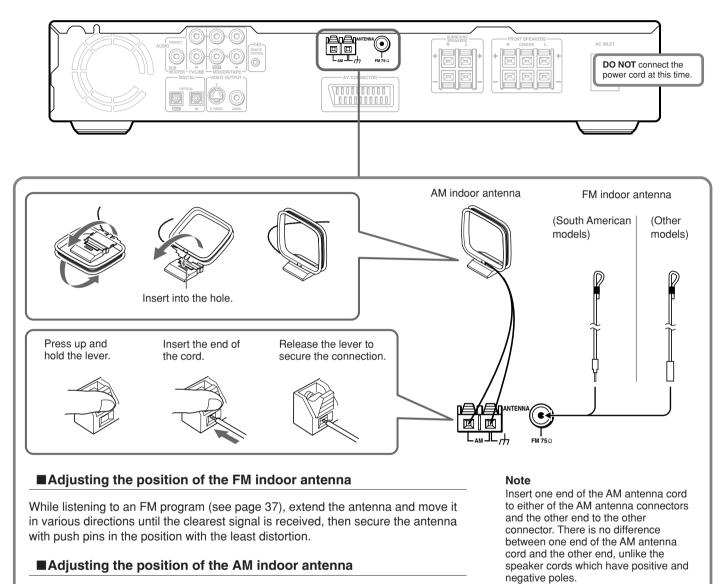


Notes

- · Connect the plugs securely.
- Be sure to connect to the RI connectors using the RI cable.
- For remote control operation, the audio connection cables must also be connected.
- If a component has two **RI** terminals, you can use either one to connect to the DVD Receiver .
- Do not connect the DVD Receiver's RI connector to any component other than an Onkyo product. It may cause malfunction.
- · Certain component models may not be able to control this unit.

Making Antenna Connections

Connecting the Supplied FM and AM Indoor Antennas



While listening to an AM program (see page 37), set the antenna in the direction and position where you receive the clearest sound. Put it as far away as possible from the unit, TVs, speaker cables, and power cords.

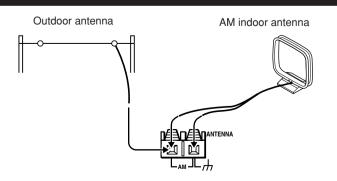
Connecting an AM Outdoor Antenna

An outdoor antenna will be more effective if it is stretched horizontally above a window or outside.

Leave the supplied AM indoor antenna connected.

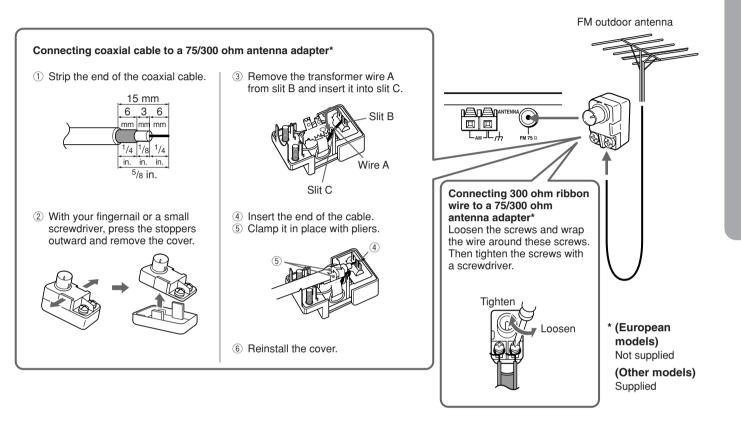
Note

To avoid the risk of lightning and electrical shock, grounding is necessary. Follow item 14 of the "Important Safety Instructions" on page 2 when you install an outdoor antenna.



Connecting an FM Outdoor Antenna

If the FM reception is not very clear with the supplied antenna, connect an FM outdoor antenna instead of the indoor FM antenna.

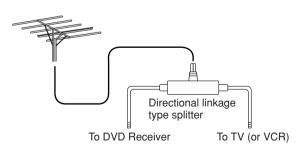


Notes

- Install the antenna well away from tall buildings and in an area where FM stations can directly be received.
- Keep the antenna away from noise sources (neon signs, busy roads, etc.).
- It is dangerous to put the antenna close to power lines. Keep it well away from power lines, transformers, etc.
- To avoid the risk of lightning and electrical shock, grounding is necessary. Follow item 14 of the "Important Safety Instructions" on page 2 when you install the outdoor antenna.

Directional linkage

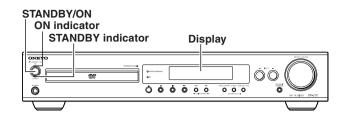
Do not use the same antenna for both FM and TV (or VCR) reception since the FM and TV (or VCR) signals can interfere with each other. If you must use a common FM/TV (or VCR) antenna, use a directional linkage type splitter.

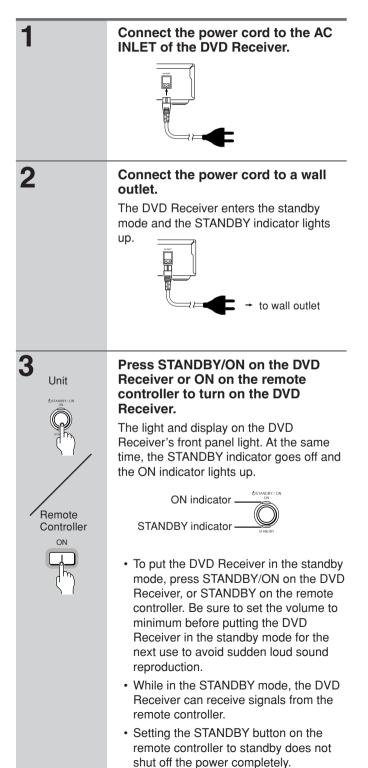


Connecting the Power/ Turning on the DVD Receiver

Before connecting

- Make sure that all the connections from pages 18 to 25 are complete (the connection to the TV is required).
- Turning on the DVD Receiver may cause a momentary power surge, which might interfere with other electrical equipment such as computers. If this happens, use a wall outlet on a different circuit.





Setting the Clock Display

To display the clock while in Standby mode, hold down the STANDBY/ON button for at least 2 seconds when switching from On to Standby mode.

Note

Displaying the clock in Standby mode consumes the same amount of power as in the On mode.

IPM +10 0 SHFT (ENTER **____** ----0 0 0 0 ONKYO

Setting the TV System

The default setting of the DVD Receiver is AUTO, and unless you notice that the picture is distorted when playing some discs, you should leave it set to AUTO.

If you experience picture distortion with some discs, set the TV system to match your country or region's system. Doing this, however, may restrict the kinds of disc you can watch. The table below shows what kinds of disc are compatible with each setting (AUTO, PAL and NTSC).

Disc		Output format		
Туре	Format	Position of TV SYSTEM mode		
		NTSC	PAL	AUTO
DVD	NTSC	NTSC	MOD. PAL	NTSC
	PAL		PAL	PAL
Video CD	NTSC	NTSC	MOD. PAL	NTSC
	PAL	NTSC	PAL	PAL
CD, No disc		NTSC	PAL	NTSC or PAL

- 1 Switch the DVD Receiver into standby.
- Hold down ►►I then press STANDBY/ON until the display 2 indicates the new setting to switch the TV system. The TV system changes as follows:
 - NTSC
 - AUTO →
 - NTSC → PAL
 - PAL AUTO

Note that you have to switch the DVD receiver into standby before each change.

About MOD. (Modulation) PAL

SHRINK

Most models of the newly developed countdown PAL TV system detect 50 Hz (PAL)/60 Hz (NTSC) and automatically switch vertical amplitude, resulting in a display without vertical shrinkage.

• If your PAL TV does not have a V-Hold control, you may not be able to view NTSC disc because the picture may roll. If the TV has a V-Hold control, adjust it until the picture stops rolling. On some TVs, the picture may shrink vertically, leaving black bands at the top and bottom of the screen. This is not a malfunction; it is caused by the NTSC → PAL conversion.

Turning the unit on/off with the TV's power switch — IPM function

The DVD Receiver is equipped with the (IPM) system. Just turn on your TV's power switch and, in about 5 seconds, the DVD Receiver turns on automatically. If you turn off the TV's power switch, IPM indicator flashes on the display and the DVD Receiver automatically turns off in about 5 minutes.

To activate the IPM function

Before operating the

remote controller Press MODE TV/SETUP.

1 Connect the audio output of your TV's audio output to the DVD Receiver's TV/LINE IN L/R jacks (refer to pages 18 and 19).

Even when connected with SCART cable, audio connection to TV/LINE IN L/R jacks is needed (European model)

2 Press IPM on the remote controller repeatedly to turn on the IPM indicator on the unit.



Notes

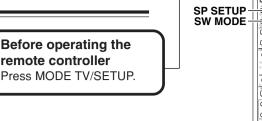
- The IPM system may not function properly with some TV sets.
 - · When using monaural TV, connect the audio output of the TV to the DVD Receiver's TV/LINE IN L jack.
 - When the TV is turned off while the DVD Receiver selects other input source, the DVD Receiver does not turn off.

Speaker Setup

You need to set up the speaker configuration for the speaker system connected to the SPEAKERS connectors (see page 20.)

Notes

- Speaker setup cannot be done if;
- Headphones are connected (see page 42)
- · It is not necessary to set the parameters again once you have completed the setup unless you change the speaker configuration.

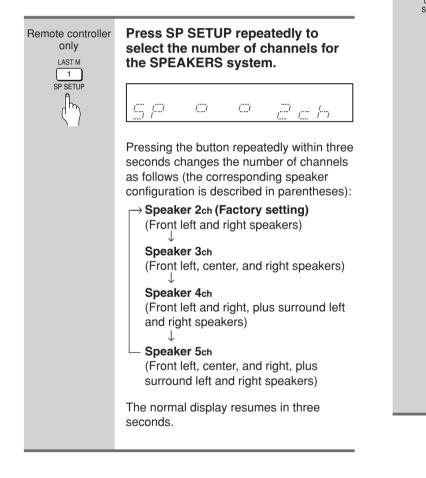




Selecting the number of speaker channels

Note

To check the present setting while the normal display is displayed. press SP SETUP once. To change the setting, press the button repeatedly within three seconds.



Selecting the Subwoofer mode

Remote controller only

Press SW MODE on the remote controller.



remote controller

	51/		DΕ		
--	-----	--	----	--	--

With the first press of the button, you can check the present setting. Then each press of the button changes the subwoofer mode as follows (a tip on how to select the right subwoofer mode is in parentheses):

SW Mode 2 (Factory setting) (When large-wideband-front speakers are connected) J

SW Mode 3

(When large-wideband speakers are connected to all channel)



connected)

(When no subwoofer is connected) J

SW Mode 1 (When small-with limited bass signal handling-front speakers are

The normal display resumes in three seconds.

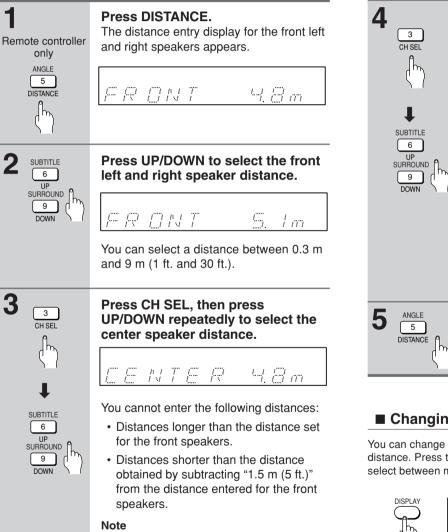
Before starting the procedure below, measure the distances from each speaker to the listening position. For pair speakers such as front left and right speakers, the distance from the listening position to one speaker should be the same as the distance to the other.

In the procedure below, select the values which approximate

the actual distances.

DISTANCE Before operating the remote controller ENTER Press MODE TV/SETUP. ONKYO

Setting the Distance From the Listening Position to Each Speaker



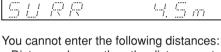
If you selected a speaker configuration with no center speaker on the opposite page, this step will be skipped.

Press CH SEL, then press UP/DOWN repeatedly to select the surround left and right speaker distance.

-CH SEL

-UP/DOWN

DISPLAY



- · Distances longer than the distance set for the front speakers.
- · Distances shorter than the distance obtained by subtracting "4.5 m (15 ft.)" from the distance entered for the front speakers.

Note

3

CH SEL

6

9

DOWN

ANGLE

5

DISTANCE

Im

If you selected a speaker configuration with no surround speakers on the opposite page, this step will be skipped.

Press DISTANCE. The normal display resumes.

Changing the units of measurement

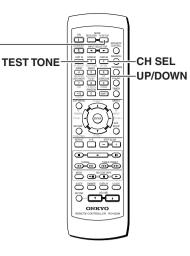
You can change the units of measurement while setting the distance. Press the DISPLAY button on the remote controller to select between meters and feet.



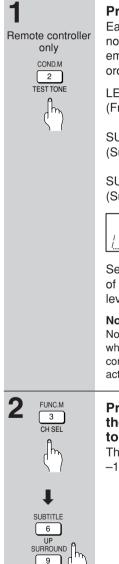
Speaker Setup

Adjust each speaker's relative volume balance so that the volumes of all speakers' test tones sound equal at the listening position.

Before operating the remote controller Press MODE TV/SETUP.



Adjusting Each Speaker's Relative Volume Balance – Test Tone



DOWN

Press TEST TONE.

Each speaker emits the test tone (pink noise) and the display shows the speaker emitting the test tone in the following order:

 $\begin{array}{cc} \mathsf{LEFT} & \to \\ (\mathsf{Front} \ \mathsf{left} \ \mathsf{ch.}) \\ \uparrow \end{array}$

SUBWFR (Subwoofer) ↑

 $SURR L \leftarrow (Surround left ch.)$

↓ SURR R h.) (Surround right ch.)

CENTER

J

RIGHT

(Center ch.)

(Front right ch.)

Set voume at a level for easy comparison of all speakers' output (around volume level 50 is standard).

Note

No test tone will be emitted from a speaker which is not included in the speaker configuration on pages 28-30 even if it is actually connected.

Press CH SEL repeatedly to select the speaker, then press UP/DOWN to adjust the volume level.

The volume level can be adjusted between –12dB and +12dB.



When you have completed the adjustment by repeating step 2, press TEST TONE.

The test tone stops and the normal display resumes.

When test tone adjustments are completed, return the volume to its usual level.

Note

Even if you don't press TEST TONE, the test tone will stop after two minutes.

Getting Started Using Your DVD Receiver

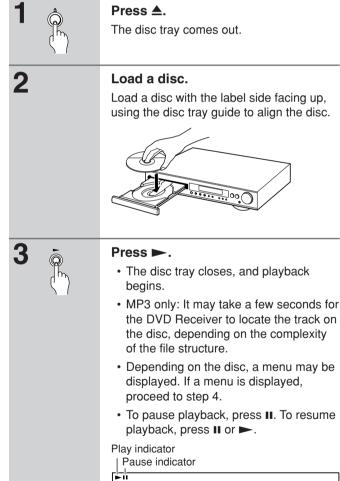
Before you can start to enjoy the digital audio and video on DVDs, be sure that you have either performed the Setup Navigator procedure described in the previous section or made the necessary settings in the Setup screen menus as outlined in the next section to set up the DVD receiver to correspond to your home system. Having made these settings, you are now ready to start using the DVD receiver to enjoy DVDs, Video CDs, CDs and MP3s.

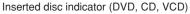
■ About the ^{DVD}, ^{VCD}, ^{CD} and ^{MB3} marks in the pages related to disc operation

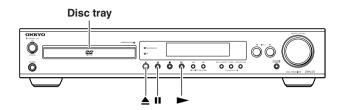
means the function or title is related to DVD-Video operation. means the function or title is related to Video CD operation. means the function or title is related to audio CD operation. means the function or title is related to MP3 operation.

DVD VCD CD MP3

Playing DVDs, Video CDs, CDs and MP3s







LAST M CONTROLLER HAST M CONDM FUNCM 1 2 3 SP SCINT TESTTONE AUDIO SS SCINT TESTTONE 4 55 60 1 1055 SUBTICLE 5 6 1 1055 SUBTICLE 7 10 SCINT 1 1055 SUBTICLE 7 10 SCINT 1 1055 SUBTICLE 1 1055 SUBTIC

Remote

Select the item you want to view.

Before operating the remote controller, press MODE RECEIVER.

• When a DVD is loaded:

Select the item with the cursor buttons $(\blacktriangleleft/\blacktriangleright/\blacktriangle/\blacktriangledown)$ or the number buttons then press ENTER.

 When a Video CD is loaded: Use the number buttons to select the item

Notes

- The TV screen size is factory set to present the wide screen format (16:9 aspect ratio). If you have a standard TV screen (4:3 aspect ratio), this setting can be changed to match your TV screen size in the Video 1 menu (page 70).
- Do not move the DVD Receiver during playback. Doing so may damage the disc.
- Use ▲ on the DVD Receiver to open and close the disc tray. Do not touch the disc tray while it is moving. Doing so may cause the DVD Receiver to malfunction.
- Do not press down on the disc tray or put any objects other than playable discs on the disc tray. Doing so may cause the DVD Receiver to malfunction.
- In many instances, a menu screen appears when playback of a movie is complete. Prolonged display of an on-screen menu may damage your television set, permanently etching that image onto its screen. To avoid this, be sure to press
 once the movie is complete.

When an operation is prohibited

There are times when you are using the DVD Receiver and attempt to perform an operation, but for some reason it cannot be performed. When this occurs, one of the two following icons appears on the screen.



The operation is prohibited by the DVD Receiver.

The operation is prohibited by the programming on the disc.

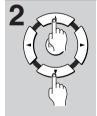
The Setup Navigator has been designed to simplify the process of getting the DVD Receiver ready to perform. Designed as a series of on-screen multiple-choice questions, the Setup Navigator automatically sets the video and language settings according to how the questions are answered. Once this procedure is complete, it will be possible to begin using the DVD Receiver to enjoy DVDs. The procedure on this page describes the operations necessary to function within the Setup Navigator screens. A detailed description of the contents of each question that appears on the screen can be found on the following pages.

Using the Setup Navigator

Press DVD SETUP.

When DVD SETUP is pressed for the first time, the following screen appears. Though the Setup Navigator may be used more than once, this screen only appears the first time DVD SETUP is pressed.

Video1 V2 Language	General
Setup Navigator	
Setup Navigator	Start
	Auto Start Off
(i) Setup using the Set	tup Navigator
Move	ENTER Select SETUP Exit



Use the cursor buttons (\blacktriangle/∇) to make a selection.

- If you are going to use the Setup Navigator, it is not necessary to change the setting on the first screen. Please proceed to the next step.
- If you do not want to set up the DVD Receiver using the Setup Navigator, use the cursor button (♥) to select [Auto Start Off] at this time.

The Setup Navigator function may still be used at a later time in manual Setup screen menu operation (page 68).



Press ENTER.

The selection is entered and the next Setup Navigator screen appears.

Use steps 2 and 3 as a basis for entering selections on the all of the Setup Navigator screens described on the following pages.

■ When setting up for the first time

Some DVDs start playing automatically when loaded in the DVD Receiver. Because the Setup Navigator cannot be used if a disc is playing, it is recommended to set up the DVD Receiver using the Setup Navigator before loading a DVD for the first time. If a DVD has been loaded, be sure to press ■ before proceeding.

■ To change the answer to a prior question

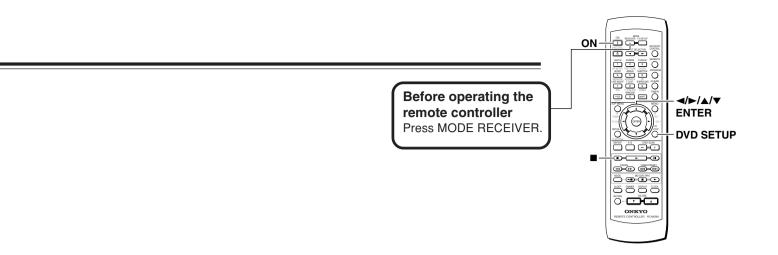
Use the cursor button (\blacktriangleleft) to return to previous screens. Please note, however, that you cannot go forward using the cursor button (\blacktriangleright), so it will be necessary to answer all the questions that occur after the screen that was returned to.

■ To exit the Setup Navigator

Press DVD SETUP while on any of the screens to exit the Setup Navigator. Please note that if the Setup Navigator is exited before all the questions are answered, no settings are changed.

Note

- On-screen information ((j)) appears to clarify the functions and explain the options available.
- If the input is not set to DVD the screen will not appear, even if you press the DVD SETUP button. In that case, press ▲ or ► to set the input to DVD.



Setting the OSD Language (On-Screen Display Language)

The [OSD Language] screen establishes the OSD language, or on-screen display language, which refers to the language that is used by the DVD Receiver in menus and on-screen messages. Additionally, the language that is established at this setting will also be used for the default audio and subtitle language.

Video1 V2 Language	General		
Setup Navigator	English		
	français		
Language	Deutsch		
OSD Language	Italiano		
	Español		
() Select the On Screen Language			
Move	ENTER Select SETUP Exit		

Settings: English (Factory setting) français Deutsch Italiano Español

Asian models only

English (Factory setting) 汉语

Notes

- The languages that can be selected may be different from those shown above.
- In addition to setting the [OSD Language], the audio and subtitle language are also set at this time. If you wish to change the audio or subtitle language to a different language, make changes in the Setup screen Language menu [Audio Language] and [Subtitle Language] as needed (pages 75, 76).

Setting the TV screen size

The [TV Type] screen establishes the size, or more appropriately the width to height ratio of your television or monitor. The width-to-height ratio of conventional TVs is 4:3, while the width-to-height ratio of wide screen and highdefinition TVs is 16:9. This width-to-height ratio is called the aspect ratio.

Video1 V2 Language	General		
Setup Navigator			
TV Connection			
TV Type	Widescreen(16:9)		
	Standard(4:3)		
(i) Widescreen TV 16:9 aspect raito			
Move	ENTER Select SETUP Exit		

Settings: Widescreen (16:9) (Factory setting) Standard (4:3)

Note

There are two screen formats that can be used to display wide-screen format DVDs: letter box and pan & scan. When [Standard (4:3)] is selected in the Setup Navigator, the letter box screen format is automatically selected. To switch the preference to the pan & scan format, make changes in the Setup screen Video 1 menu [TV Screen] setting (page 70).

Confirming the settings

The [Exit Setup Navigator] is the final screen in the Setup Navigator.

Video1 V2 Language General

Setup Navigator				
Exit Setup Navigator	-	Change te Chang		
	Star	t Again		
() Changes are saved				
Move	ENTER	Select	SETUP	Exit

Settings: Save Changes (Factory setting)

Select to have the DVD Receiver make all of the necessary video and language settings according to your responses in the Setup Navigator.

Delete Changes

Select to exit the Setup Navigator without changing any of the system settings.

Start Again

Select to return to the [OSD Language] screen of the Setup Navigator and do the settings again.

To change other DVD receiver settings in the Setup screen menus

The procedure for changing the settings in the Setup screen menus is described on page 68.

Getting Started Using Your DVD Receiver

DVD VCD

When a Menu Screen is Displayed

Menu screens are displayed for DVDs that have menu screens or Video CDs that include Playback Control (PBC). DVDs often contain extra information that can be accessed in the DVD menu and sometimes makes navigating DVD menu screens as enjoyable as watching the feature presentation.

Example: When a DVD that has menu screens is loaded

	Main Menu
1	Highlight Clips
2	Chapter List
З	Commercial Header
4	Subtitles
5	Soundtrack
6	Start Main Feature

Example: When a Video CD that has Playback Control is loaded

	STANDARD VO	CAL BEST
1	Don't Tekno for an Answer	Bertie B.& the Goans
2	Bad Whack Naff Riff	Hood in the Boyz
3	dubmyheadbassman	Sleek Machine
4	Gooey Love Jingle	Philip William
5	Praise the Day	Formerly an Artist
6	G3, Ba-san	Pfeuti
7	Abstract Jazz Phunk	John Torn
8	Rock the Love Jive	Hot Monkey Stick

■ To navigate a menu screen

- Although individual DVD titles may differ, when a menu screen is displayed, use the cursor buttons (◄/►/▲/▼) and ENTER on the remote control. The cursor buttons are used to move around the options on the screen and ENTER is used for selection.
- Occasionally, the number buttons may also be used to make selections. If this is possible, using number buttons serves to directly select an option on a menu screen. Only number buttons are used to make selections on Video CD menu screens.
- When the Video CD has more than one menu, pages can be advanced to or returned to with I◄◄ or ►►I.

DVD VCD

To Open or Return To the DVD or Video CD Menu Screen

Although this differs depending on the disc, pressing MENU, TOP MENU, or RETURN during DVD playback or RETURN during Video CD playback displays the menu screen. Refer to the DVD or Video CD disc jacket and accompanying documentation for more information.

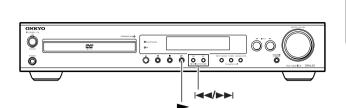
To play Video CDs without displaying menu screens

Video CDs with Playback Control (PBC) display a menu screen when play is started. It is possible, however, to play back Video CDs without displaying menu screens. When a Video CD with PBC is loaded, press \blacksquare , and then the number button of the track you want to play.

■ When screen saver appears

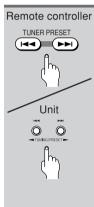
During disc playback, when the disc is paused, a screen saver appears after a fixed period. Press \blacksquare or \blacktriangleright to resume playback. Alternately, the unit can be programmed to turn off at this time (page 71).

CD's may be played with TV screen on or off.



DVD, VCD, CD, MP3

Chapter (Track) Skip Forward/Skip Back



Advancing to the next chapter (track)

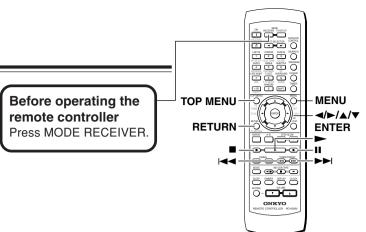
Press ►►.

Press to skip forward to the next chapter (track).

Skipping back to the previous chapter (track)

Press

- · Press once to skip back to the start of the chapter (track) currently playing.
- · Press twice to skip back to the start of the previous chapter (track).



DVD, VCD, CD, MP3

TUNER PRESET

ſh

Unit

00

Forward and Reverse Scanning

Fast forward and reverse scanning Remote controller

Press and hold <</p> the front panel) during playback to scan forwards or backwards.

While "►► 1" or "◄◄ 1" is displayed onscreen blinking, release the button to resume normal playback.

Variable speed scanning (Remote controller only)

1 Press (but don't hold) ►► or ◄◄ during playback to start scanning.

"►► 1" or "◄◄ 1" appears on screen.

2 Depending on the type of disc playing, you can increase the scanning speed by pressing ►► or ◀◀.

The scan speed is shown on-screen.

DVDs have three scanning speeds;

 $1 \leftrightarrow 2 \leftrightarrow 3$

CD and Video CDs have two scanning speeds;

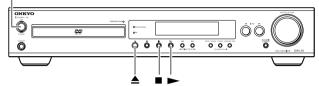
 $1 \leftrightarrow 2$

MP3 have only one scanning speed.

3 Press ► to resume normal playback.

Getting Started Using Your DVD Receiver

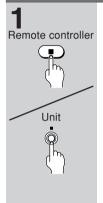
STANDBY/ON



Resuming playback from where you stopped

Use the resume feature to restart playback from the point that the disc was stopped last.

This features cannot be used with MP3s and CDs.



Remote controller

Unit

Press ■ once.

The display shows "STOP" then "RESUME", and the stop position is memorized.

- The resume position remains memorized as long as the disc is in the DVD Receiver — even if you switch the power off.
- Pressing twice causes the disc to return to the beginning when ► is pressed again. The display shows the disc type (DVDs or Video CDs).

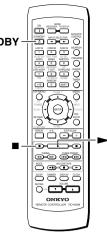
Press ►.

Playback starts from the resume position.

Notes

2

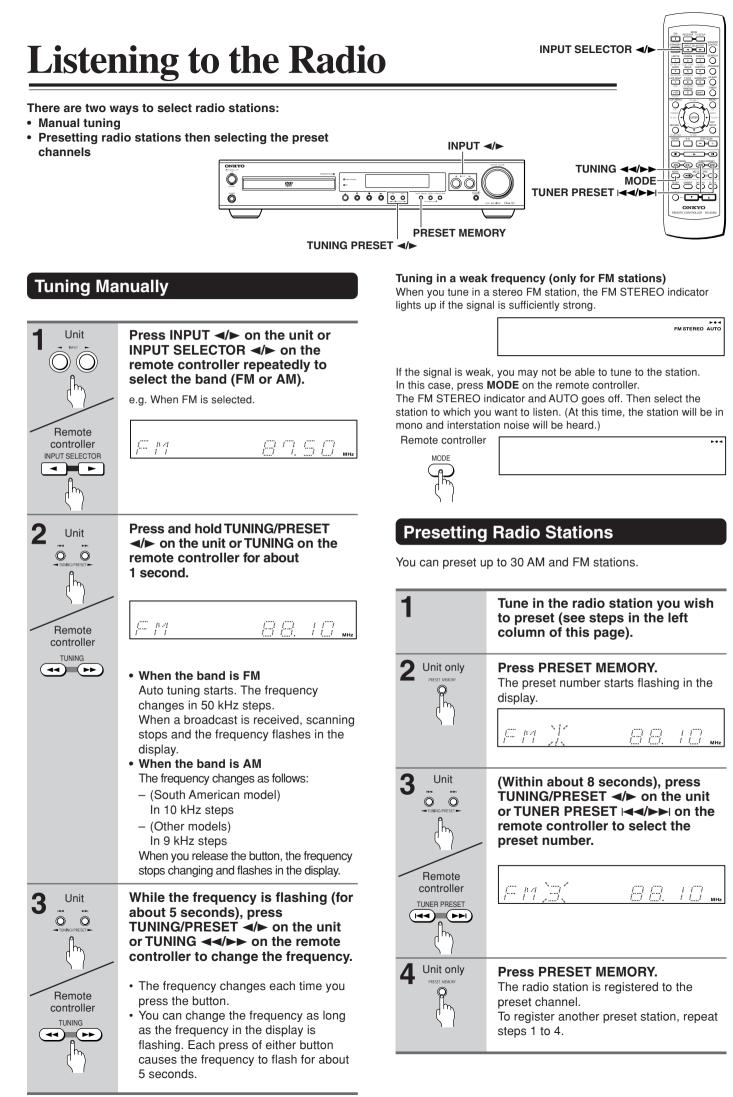
- The actual restart position may be slightly before or after the resume position.
- If you want to remove the disc but still want to resume playback from the last stopped position, use the LAST MEMORY feature instead (page 64).
- The memorized resume position is erased when you open the disc tray, or change the Parental Lock Level setting (page 79) or On-screen Display (OSD) setting (page 74).

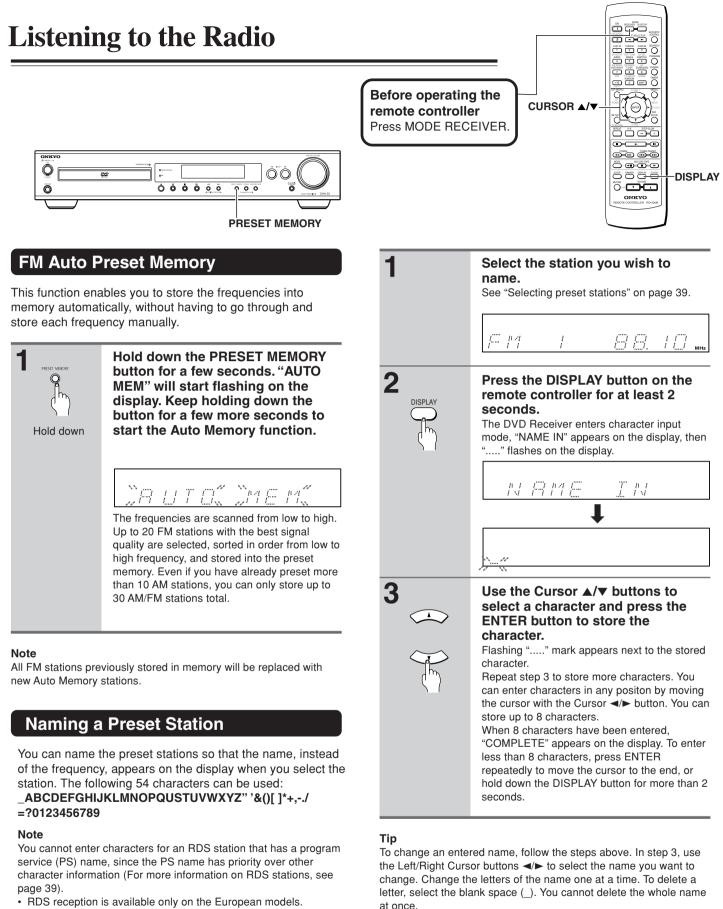


CDV VCD CD MP3

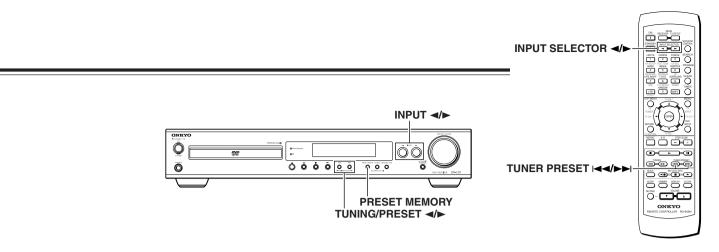
Stopping Playback and Switching Power Off

1 Remote controller	Press ■. Playback stops.
2	Press ≜. The disc tray comes out.
3	Remove the disc.
4 Remote controller STANDBY	Press STANDBY/ON (STANDBY on the remote controller). The disc tray goes back in.



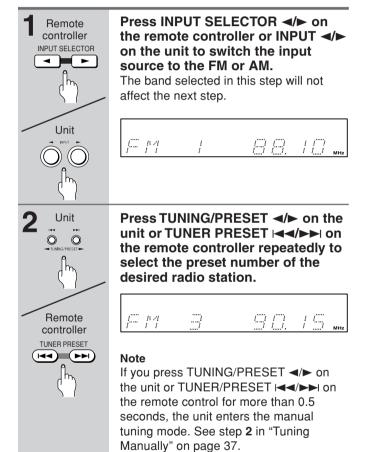


· RDS reception is available only on the European models.

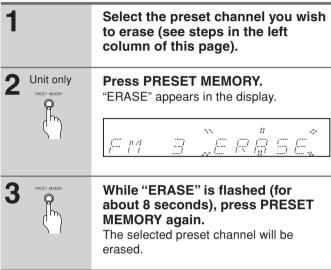


Selecting Preset Stations

Before selecting preset stations, you need to preset the radio stations. See "Presetting Radio Stations" on page 37.



Erasing a Preset Station



Receiving RDS (European models only)

When an RDS (Radio Data System) station broadcasting PS (Program Service Name) information is received, the RDS indicator lights up and the name of the station is displayed. (RDS reception is only available in areas where RDS broadcasts are available.)

RDS



To use the following functions, see page 42.

- · Adjusting the Volume
- Muting the Sound
- Listening Through Headphones
- · Controlling the Brightness of the display on the DVD Receiver

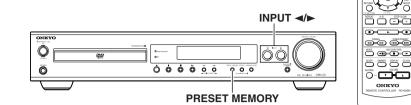
Enjoying the Sound Effects While Listening to Radio Programs

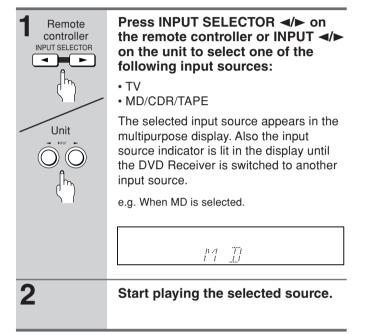
See page 48.

Playing the Connected Source

This section shows you how to play the sources connected to the DVD Receiver.

You may need to see "Connecting to a TV" on pages 18, 19 and "Connecting to Audio/ Video Equipment" on page 22 while following the steps in this section.





Changing the "MD" display to match the connected source

- 1 Press the INPUT ◄/► button on the unit to select MD.
- 2 Press the PRESET MEMORY button. "NAME SEL" is displayed then "MD" flashes in the display.
- 3 Press the INPUT </ → button repeatedly to select the desired operation.

The display changes as follows:

 $MD \rightarrow CDR \rightarrow TAPE \rightarrow MD$

4 Press the PRESET MEMORY button to select. "COMPLETE" appears then the display switches back to the selected input.

About digital sound

If the equipment is digitally connected to the DVD Receiver, the sound from the digital input will automatically be selected and reproduced instead of the analog sound as explained below.

ENTER

• When the TV source is selected, the digital sound from the DIGITAL OPTICAL INPUT jack is reproduced.

When the digital sound is reproduced, the DIGITAL indicator lights up in the display. According to the received sound system, the DDIGITAL or DTS indicator lights up.

DEDIGITAL DTS

Note

The DVD Receiver only reproduces DOLBY DIGITAL, DTS, and PCM sound formats from connected equipment.

Various Functions While Playing the Connected Source

To use the following functions, see page 42.

- Adjusting the Volume
- · Muting the Sound
- Listening Through Headphones
- · Controlling the Brightness of the display on the DVD Receiver

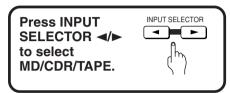
Enjoying the Sound Effects While Playing the Connected Source

See page 48.

Operating the Onkyo MD Recorder/CD Recorder/Cassette Tape Deck With the **Supplied Remote Controller**

■ Operating the Onkyo CD recorder, MD recorder or cassette tape deck to the DVD Receiver with the RI cable (see page 23)

Point the remote controller toward the DVD Receiver when you want to operate this equipment. When connecting the CD Recorder, use the Input Selector to select CDR (see page 40). Selecting CDR enables you too use the CDR function. To connect the Cassette Tape Deck, follow the same procedure and select TAPE.



CD recorder			ON RECEIVER TVISETUP ACOUSTIC		MD rec
►	Play		STANDBY INPUT SELECTOR CONTROL		
	Stop/Cancel	_	LAST M COND.M FUNC.M SEARCH		
⊲ /II	Pause		SP SETUP TEST TONE CH SEL AUDIO ANGLE SUBTITLE PROGRAM		◄ /II
	Down	 Number – buttons 	SW MODE DISTANCE UP ATE NIGHT T-D/ST SURROUND CLEAR	PROGRAM	
	Up		T-D SETUP DOWN TIMER	CLEAR	
	Fast Reverse	RANDOM -			
••	Fast Forward	_	TOP MENU TV VOL + MENU		••
REPEAT	Repeat mode		TV TV POWER		REPEA
RANDOM	Random play (press "0" within 10 seconds of pressing SHIFT)	_	TV CH - (ENTER) DVD RETURN		RANDO
DISPLAY	Change display	— A-B —	TV VOL -		DISPLA
PROGRAM	Memory	— REPEAT —			PROGR
CLEAR	Clear	_			CLEAR
0-9, +10 (/) Number buttons				A-B
MODE	Play mode (random,	MODE		MD/CDR/TAPE	0-9, +10
	program, normal)	_	SLEEP DIMMER DISPLAY CLOCK		MODE
				DISPLAY	
			ONKYO		Cassett
			REMOTE CONTROLLER RC-505M		
					∥</td

corder

	Play
-	Stop/Cancel
⊲ /II	Pause
	Down
	Up
	Fast Reverse
>>	Fast Forward
REPEAT	Repeat mode
RANDOM	Random play (press "0" within 10 seconds of pressing SHIFT)
DISPLAY	Change display
PROGRAM	Memory
CLEAR	Clear
A-B	A-B Repeat
0-9, +10 (/)	Number buttons
MODE	Play mode (random, program, normal)

tte tape deck

	Play
	Stop
◄ /II	Reverse play (reverse tape deck only)
	Rewind
	Fast forward
REPEAT	Selects reverse mode (,
	, む)

- You can use graied buttons in the illustration to control the DVD Receiver in any mode.
- · Some buttons may not work properly.

Various Functions Common to all the Sources



Ô

Adjusting the Volume

The volume of the front left and right, center, surround left and right, and subwoofer speakers will be adjusted at the same time.

When headphones are connected, you can adjust the volume of the sound through the headphones.

Operating with the remote controller



Press VOLUME ▲/▼.

Operating with the unit



Muting the Sound

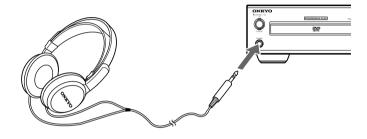
Press MUTING.

Turn MASTER VOLUME clockwise to increase the volume, or counterclockwise (anticlockwise) to decrease the volume.

Listening Through Headphones

MASTER VOLUME

Connect the plug of the stereo headphones to the PHONES jack on the DVD Receiver.



Notes

000000

0 0 0

- The speakers will not reproduce sound while headphones are connected.
- The listening mode is set to "STEREO" after connecting the headphones to the PHONES jack.
- When you disconnect the headphones, the listening mode returns to the previous mode.

Controlling the Brightness of the display on the DVD Receiver

Remote controller only

Press DIMMER.

Each press of the button changes the brightness as follows:



ightarrow The display becomes dimmer. \downarrow

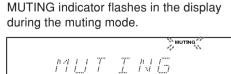
The display is dimmest.

The display resumes the original brightness.

Remote

controller only

MUTING



"MUTING" appears in the multipurpose

display for about three seconds. Also the

To restore the sound, press MUTING again.

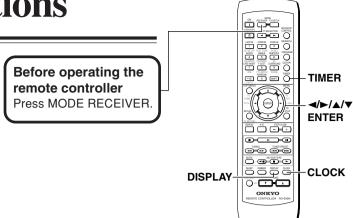
Тір

If you turn off the unit during muting, and turn it on again, the sound will be restored.

Using the Timer Functions

This manual uses the 24-hour display to describe how to set the clock. The clock display may also be switched to a AM/PM display.

- Caution
- In the event of a power outage, or the power cord being removed from the socket, the clock display will disappear. Please reset the time again.
- When using the clock functions, make sure that the power cord is connected to a proper power supply.



Setting the current date and time Press TIMER repeatedly until TIMER Start the clock. "CLOCK" appears in the display on Match the date, time etc. then press the unit, then press ENTER. ENTER. The display switches back to the function. 9:98, Blinking Ti i z Ti Li k Li Press the cursor buttons (\blacktriangle/∇) to Display switches back to the function. select a day of the week, then press ENTER. While the desired day of the week is Displaying the current time flashing, press ENTER. Press CLOCK on the remote controller. If the clock is not set. "ADJUST" flashes. Please set the clock 944 N When the power on, press CLOCK on the remote control to display current date and time. Press CLOCK again to return to Days of the week are displayed as follows: the previous display. SUN (Sunday) THU (Thursday) CLOCK MON (Monday) FRI (Friday) GINV G: AG TUE (Tuesday) SAT (Saturday) WED (Wednesday) When the unit is in standby mode, press CLOCK on the remote control to display the current date and time. The display will disappear after 7 seconds. (Power saving mode) To switch the clock display 24-hour/ AM/PM, press DISPLAY. $Q: \neg Q$ - :38 **-**9:38814 Press the cursor buttons (\blacktriangle/∇) to Display disappears after 7 seconds set the time. $\Box = \Box \Box$ Tip When using the 24 hour display, you can

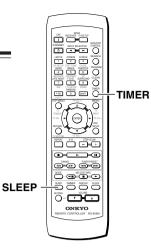
When using the 24 hour display, you can also use the number buttons to set the time.

Using the Timer Functions

Caution

 You cannot change the settings to the current time or turn off time during playback timer or recording timer operation.

Please make sure that the system is properly connected. The playback timer and recording timer will not function if connections are incomplete



Types of timers

SLEEP:	Puts the system into standby mode at the preset time. The sleep timer is activated by the SLEEP button.
(Playback)	
ONCE:	Activates only once after setting.
WEEKDAY:	Activates playback timer during weekdays (mon-fri).
	You can change particular days of the week.
WEEKEND:	Activates playback timer during weekends.
	 You can change particular days of the weekend.
	• You can set WEEKDAY and WEEKEND times to the same day.
(Recording)	
REC:	Can be set to ONCE, or EVERY. Setting to ONCE, activates the record timer only once. Set to EVERY to record at a particular time everyday.

About the timer display

When pressing TIMER repeatedly to display the various times, a lit TIMER indicator means that the time is set.

Lights

TIMER		

Using the Sleep Timer



Press SLEEP.

"SLEEP 90min" appears in the multipurpose display for about 5 seconds, which means the unit will turn off and enter standby mode in 90 minutes. Also the SLEEP indicator is lit in the display while the sleep timer is On.



Each press of the SLEEP button makes the remaining time shorter by 10 minutes. Press the Cursor $\blacktriangle/\checkmark$ buttons to adjust the time in 1 minute intervals.

Checking the remaining time

Press SLEEP while the Sleep Timer is On.

If you press SLEEP while the remaining time is displayed, the remaining time is reduced by 10 minutes.

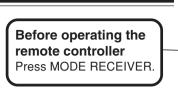
■ Canceling the Sleep Timer

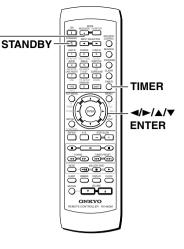
Press SLEEP repeatedly until the SLEEP indicator goes off.

For FM, AM timer playback, first preset the radio stations (page 37).

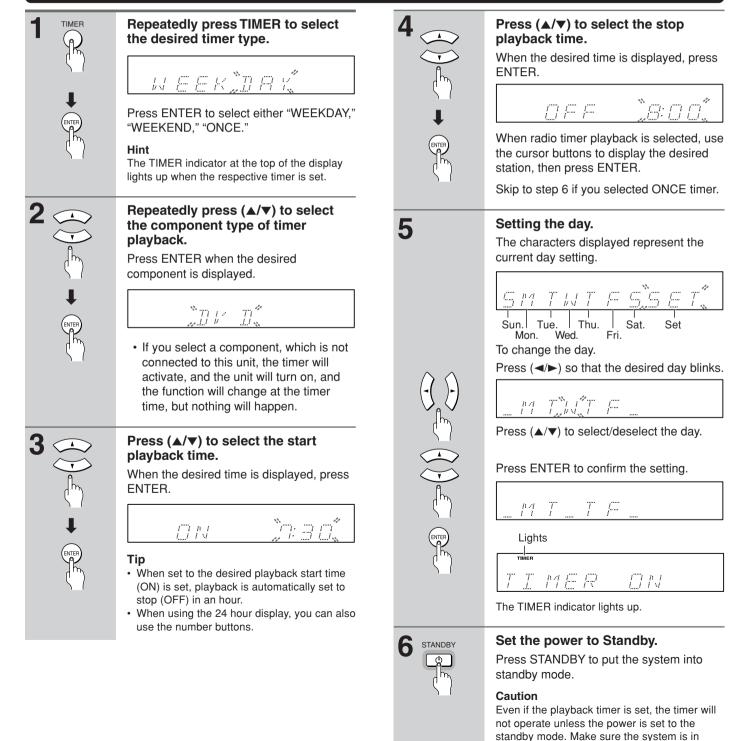
Caution

If the current time is not set, you cannot preset the playback timer.





Presetting the playback timer



standby mode.

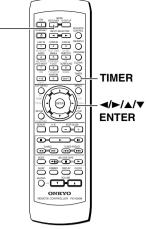
Using the Timer Functions

Be sure to preset FM and AM stations beforehand (page 37).

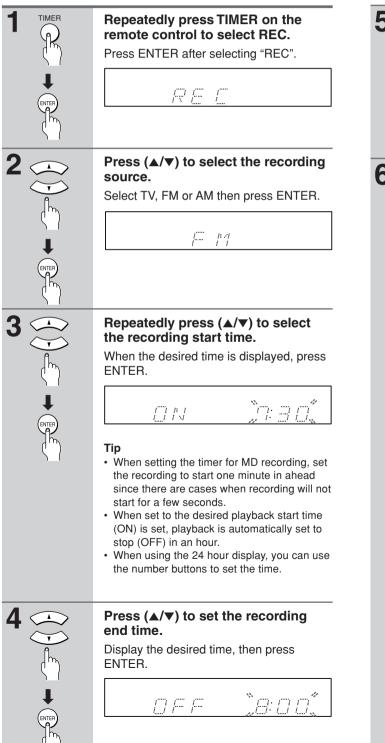
Caution

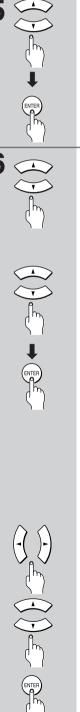
- If the current time is not set, you cannot preset the playback timer make sure that the current time is set.
- Except for EVERY, all record timers record only once. When the recording is finished, the timer is deactivated.

Before operating the remote controller Press MODE RECEIVER.



Setting the record timer





Press $(\blacktriangle/\triangledown)$ to select the desired radio station.

Display the desired radio station, then press ENTER.



Press the $(\blacktriangle/\triangledown)$ cursor buttons to select ONCE or EVERY.

Caution

Setting the recording timer to ONCE will only record one time.

ONCE recording:

Press (▲/▼) to select a day (or NEXT), then press ENTER. (Displays when your next set time)



OR (Selects the day of week)

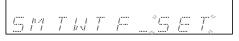
11.71				
11	 	 	 	

At first, only the current day blinks.

EVERY recording:

Set the day.

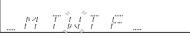
Г



The TIMER indicator at the top of the display lights up when the respective timer is set.

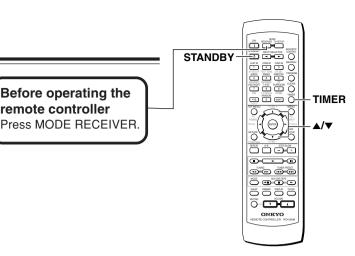
To change the day of week setting:

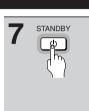
Press $(\blacktriangleleft \rightarrow)$ so that the desired day blinks.



Presses $(\blacktriangle/ \mathbf{\nabla})$ to select/deselect the day. Press ENTER to confirm the setting.







Set the power to Standby.

Press STANDBY to put the system into standby mode.

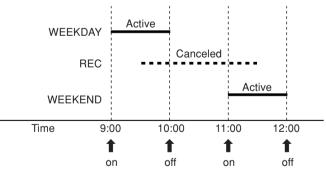
· The muting function activates during timer recording. If you would like to monitor the sound during recording, press MUTING on the remote to cancel the muting function.

Caution

· Even if the record timer is set to sure the timer, the timer will not operate unless the power is set to the standby mode. Make sure the system is in standby mode.

In the case of overlapping timer settings

· When the power is turned on during timer playback, even if you set another timer, it will not be activated. The initial timer is canceled when the standby mode is initiated.



- · If WEEKDAY timer end time and the REC timer start time are set to the same time, the REC timer will not activate. Please all a one-minute difference end time and start time of each times.
- · If two or more ONCE / WEEKDAY / WEEKEND / REC are set to the same timers start times are given the following priority: ONCE \rightarrow WEEKDAY \rightarrow WEEKEND \rightarrow REC.
- If the REC timer is deactivated because the power is already on (etc.), the TIMER indicator does not light in the display and the timer settings are cancelled.
- · If the power is already on when a timer's start time occurs and there is another overlapping timer, the second timer will not operate. The power turns off automatically at the end time of the first timer.

Switching the timer on or off

Before operating the

remote controller

- · Use when you want to cancel an active timer setting, reset a canceled timer, or when you want to revise a record timer.
- · If the current time is not set, you cannot preset the timer.

	Repeatedly press TIMER to select the desired timer type.The TIMER indicator at the top of the display lights up when the respective timer is set. $IJ \subseteq K \square \subseteq Y$
2	Use ($\blacktriangle/\checkmark$) to switch the timer on or off. Approx. 2 seconds after switching the timer, the previous screen will reappear.
	or
	TIMER OFF
	Caution Pressing ENTER, activates the start time (etc.) setting mode.

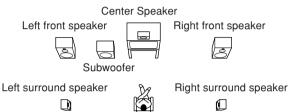
Enjoying the Sound Effects

The surround sound of the DVD Receiver enables you to enjoy the presence of a movie theater or concert hall in your room. Before using any sound effect, make sure the Speaker Setup configurations have been set (see pages 28-30). The speaker configuration is very important for surround sound. See "Connecting Speakers" on page 20 and "Positioning Speakers" on page 21.

Following are the sound systems the DVD Receiver can reproduce.

DOLBY DIGITAL Surround and DTS (Digital Theater System) Surround

Recommended speaker setup



This 5.1 channel digital surround format enables you to individually play five full-range (20Hz–20kHz) channels (left and right front, center, and two surround channels) plus an LFE (Low Frequency Effect) channel for low-range effect sound. It will create a realistic sound like that heard in theaters and concert halls.

DOLBY DIGITAL Surround

DVD videos that have the $D_{D+G+T+L}^{CDOLBY}$ mark are recorded using this system.

To playback DOLBY DIGITAL Surround sound from connected equipment, you must make the digital connection in addition to the above speaker configuration.

DTS Surround

DVD videos and audio CDs that have the mark are recorded using this system.

To playback DTS Surround sound from connected equipment such as an LD player, you must make the digital connection in addition to the above speaker configuration.

Notes on DTS Surround

- If you play a DTS Surround encoded disc with the DVD Receiver, or a DTS encoded disc using a digitally connected player, you may hear a noise for a short while until the DTS decoder of the DVD Receiver recognizes the DTS encoded signal and starts operating. This is not a malfunction.
- If you play a DTS Surround source in fast reverse or fast forward, pause, or skip a chapter or track, noise may be heard. This is not a malfunction.
- Even when playback of the DTS Surround source stops and the DTS signal transmission ends, the DVD Receiver remains in DTS mode and the DTS indicator remains lit. This is to prevent noise when you pause, fast forward, fast reverse, or skip a chapter or track of the playback source. Therefore, if the source switches from the DTS signal to a PCM (2 channel digital stereo) signal suddenly, the PCM signal may not be played. In such a case, stop playback for about three seconds, then resume playback.
- Some CD players (if connected to the DVD Receiver) and LD players may be unable to play DTS Surround sources correctly even if you connect the player to the DVD Receiver digitally. In such a case, the digital signals (such as the output level, sampling frequency, frequency response, etc.) processed by the DVD Receiver cannot be recognized as DTS data by the DVD Receiver and you may hear noise instead of the proper sound.

DOLBY PRO LOGIC II Surround

This is a 5-channel surround system of a new generation, bridging the gap between the previous 4-channel (Left/Right Front, Center and monaural surround channels) Pro Logic surround and 5.1-channel Dolby Digital surround. Dolby Pro Logic II provides a Movie mode optimized for viewing movies and a Music mode optimized for listening to music. In the Movie mode, the surround channel, which was monaural and based on narrow band, is reproduced in stereo so that the feeling of movement in the played movies is enhanced. In the Music mode, the surround channel reproduces natural sound field even with 2-channel music sources. The Movie mode allows you to enjoy VHS and DVD software carrying the DC DOLEY SURROUND marking as well as some of TV broadcast programs. The Music mode allows you to enjoy stereo music from CD, etc.

Onkyo's original Digital Signal Processing (DSP) modes

The DVD Receiver offers the following special Onkyo sound effects for sources other than Dolby Digital and DTS sounds.

Orchestra

This mode is suitable for classical and opera music. The center channel is cut and the surround channels are emphasized to widen the stereo image. It simulates a natural reverberation as created in a large hall.

Unplugged

This mode is suitable for acoustic instrumental sounds, vocals, and jazz music. By emphasizing the front stereo image, it simulates the acoustics in front of the stage.

Studio-Mix

This mode is suitable for rock and popular music. Lively sounds with a powerful acoustic image will make you feel as if you are in a club.

TV Logic

This mode offers the realistic acoustics of a TV program being aired in the TV studio. It enhances the entire surround sound and clarity of conversation.

All Ch St (All Channel Stereo)

This mode is useful for background music. The front and surround channels will create a stereo image.

■ Theater-Dimensional (T-D)* mode Theater-Dimensional

The ideal home theater is realized by the multichannel sound reproduction with the complete speaker configuration and speaker positioning described on page 21. However, sometimes it is difficult to meet all those conditions. In reality, you may only have front speakers, or not be able to place the surround speakers in position.

Even if your speaker system is not complete, you can enjoy the multichannel surround sound by using the Theater-Dimensional mode. Theater-Dimensional mode sets the output channels to generate the most suitable virtual surround reproduction according to the number of the speaker channels set in "Speaker Setup" on page 28 or 29.

The importance of the speaker setup

Calibrating each speaker's sound pressure is essential for home theater sound reproduction. The same thing can be said for virtual surround sound reproduction. Especially level matching and the time alignment of the two speakers that reproduce virtual surround signals becomes an even more important factor than with normal multichannel reproduction.

For the DVD Receiver, the calibration for the multichannel reproduction (see "Setting the Distance from the Listening Position to Each Speaker" on page 29 and "Adjusting Each Speaker's Relative Volume Balance - Test Tone" on page 30) provides the most appropriate level matching.

Notes

- For input sources which include surround channel signals like the multichannel DOLBY DIGITAL and DTS surround sounds, virtual processing is applied to those surround channel signals.
- For 2 channel input sources, the surround channel elements are automatically extracted with DOLBY PRO LOGIC processing before virtual processing is applied.
- For monaural or front 3 channel stereo sources, the virtual surround effect does not work since those input sources do not include the surround channel signals.
- * Theater-Dimensional is a virtual surround technology developed by Onkyo. This technology is approved by Dolby Laboratories for the virtual surround processing of Virtual Dolby Digital and Virtual Dolby Surround products.

The Input Sources and Available Listening Modes

The available listening modes varies depending on the sound type of the input source. The table below shows the correlation between the input source types and listening modes.

(The sources listed at the top of each column can use the listening modes marked with an \times .)

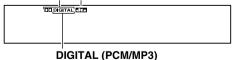
Input Source Signals	Analog	g/PCM	Dolby	Digital	DTS
Possible sources Listening Modes	deck, tape, Au VIDE Rec FM bro	tte tape Video udio CD, O CD, cord, adcast, padcast	LI Dig (sate	video, D, lital ellite) dcast	DVD video, Audio CD, Video tape, LD
	PCM 96kHz	other	2/0	other	
STEREO	×	×	×	×	×
THEATER-DIMENSIONAL		×	×	×	×
DOLBY DIGITAL				×	
DTS					×
PL II MOVIE/PL II MUSIC		×	×		
ORCHESTRA		×			
UNPLUGGED		×			
STUDIO-MIX		×			
TV LOGIC		×			
ALL CH ST		×			

Note

- The listening mode is set to "STEREO" when a PCM sound with a sampling frequency higher than 48kHz is played. Such highresolution sounds are reproduced from sources such as DVD video.
- When the Speaker setup is set to 2 channels (SP 2CH), you can't select DOLBY DIGITAL, DTS or PLII MOVIE/PL II MUSIC. Also, when speaker setup is set to 2 channels (SP 2CH) or 3 channels (SP 3CH), you can't select ORCHESTRA, UNPLUGGED, STUDIO-MIX, TV LOGIC or ALL CH ST.

Checking the Sound System of the Playing Source

DOLBY DIGITAL DTS

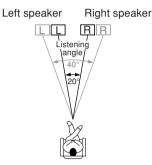


Choosing Theater-Dimensional Mode

Theater-Dimensional mode is the technology which controls the characteristics of the sounds reaching the listener's left and right ears, therefore, there is a sweet spot where you can best experience the Theater-Dimensional effects. You need to adjust the location of the sweet spot and these other factors for the best possible Theater-Dimensional effect.

Listening angle

("LSTN. ANGLE" appears in the display.)



The greater the distance between the two speakers is, the wider the angle is.

The listening angle is the angle at the listening position where the two lines from the left and right speakers meet.

You need to adjust the listening angle in the following cases:

• Consider the listening angle as being formed from the left and right <u>front</u> speakers since the virtual surround signals are output from the front speakers.

Set "LSTN. ANGLE" to one of the following settings, which you feel is most effective (the listening angles in parentheses are ideal):

- Normal (30°)
- Wide (40°)
- Narrow (20°)

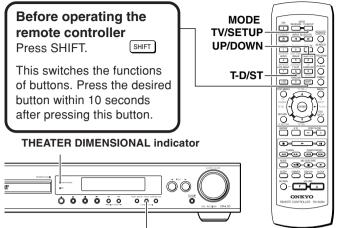
Notes

- · Theater-Dimensional mode cannot be activated if;
 - Headphones are connected, or
 - The source is PCM sound with a sampling frequency higher than 48kHz.

 Theater-Dimensional mode will be canceled and the T-D indicator goes off when:

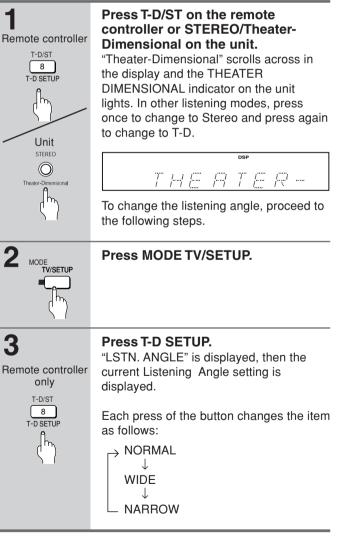
- Another listening mode is chosen, or

 The input source is switched to a type of source which Theater-Dimensional mode cannot process.



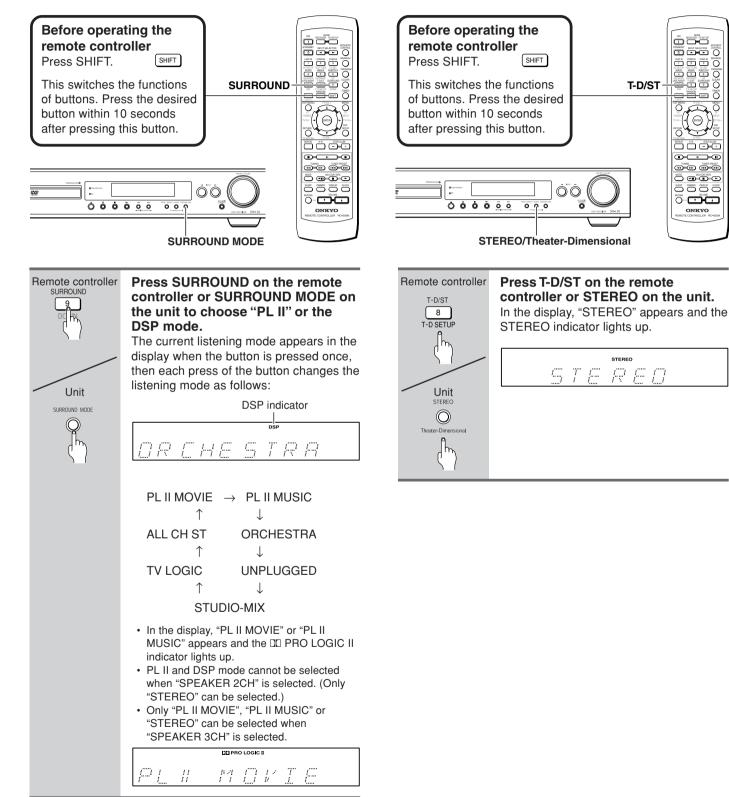
STEREO Theater-Dimensional

See "The Input Sources and Available Listening Modes" on page 49.



Using Dolby Pro Logic II/ Onkyo's Original DSP Modes

See "The Input Sources and Available Listening Modes" on page 49.



Changing the Sound to Stereo

page 49.

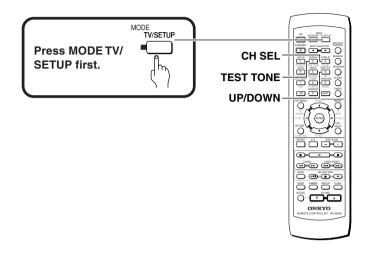
See "The Input Sources and Available Listening Modes" on

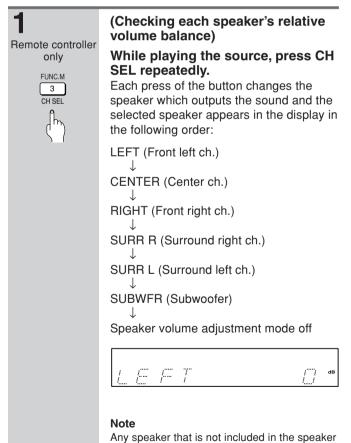
51

Adjusting Each Speaker's Relative Volume Balance Temporarily

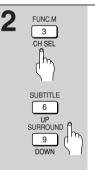
You can readjust each speaker's relative volume balance according to your preference while listening to the sound.

The adjusted values will return to the values set on page 30 when the DVD Receiver enters standby mode, or the main power is switched off unless you save the values.





Any speaker that is not included in the speaker configuration on pages 28 and 29 is not selected even if it is actually connected.



(Adjusting each speaker's relative volume balance)

Press CH SEL repeatedly to select the speaker, then press UP/DOWN to adjust the volume level.

The volume level can be adjusted between -12dB and +12dB.

Repeat this step to change another speaker's volume balance.

Saving the adjusted values

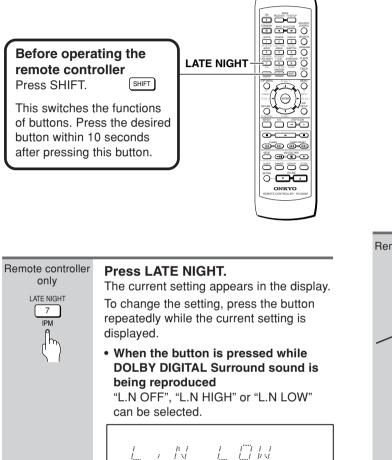
Remote controller only COND.M 2 TEST TONE

Press TEST TONE.

Using the LATE NIGHT Function

• The LATE NIGHT function operates when the sound is DOLBY DIGITAL Surround.

If you play a movie at low volume at night, set this function to "**LOW**" or "**HIGH**" to narrow the dynamic range of the sound and make it easier to hear.

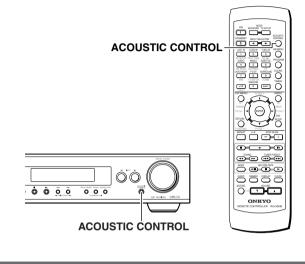


Note

The LATE NIGHT effect is determined by each DOLBY DIGITAL sound source. Some sources may produce little or no effect.

Boosting the Super Bass Sounds/High Frequency Sounds

You can enjoy more dynamic sounds by boosting the super bass/high frequency sounds, even with decreased volume.





Press ACOUSTIC CONTROL.

Each press of the button changes the acoustic mode as follows:

 → "A. CTRL 1" appears in the display and the A.CTRL indicator turns on. The super bass sounds are boosted.
 ↓

"A. CTRL 2" appears in the display and the A.CTRL indicator turns on. The super bass sounds are further reinforced and the high frequency sounds are also reinforced.

"A. CTRL OFF" appears in the display and the A.CTRL indicator goes off.

Locating a Specific Title/Folder/ **Chapter/Track/Location**

DVD, VCD, CD, MP3

Searching for a Title, Folder, Chapter, Track, or Location on a Disc

This DVD Receiver offers different ways of accessing the information on a DVD, Video CD, CD or MP3. Using SEARCH, you can search for titles or chapters on a DVD, tracks on a Video CD, CD or folders or tracks on a MP3 and even select the point in time to start playback.

1 SEARCH	Press SEARCH repeatedly to select the type of search. The type of search changes which each press as follows. DVD Title Chapter Off Time Video CD Track Time Off CD Track Off MP3 Folder Track Off Cf
2 ASTM COND.M FUNC.M 1 2 SP BEITUP AUDIO SP BEITUP AUDIO AU	 Press the number button(s) of the desired title, chapter or track or of the specific time where you would like to begin playback. To select number 3, press 3. To select number 10, press 1 and 0. To select number 87, press 8 and 7. When performing a time search: To select 21 minutes, 43 seconds, press 2, 1, 4, and 3. To select 1 hour, 14 minutes, press 7, 4, 0, and 0.
3	Press Playback of the selected title, folder,

appointed time.

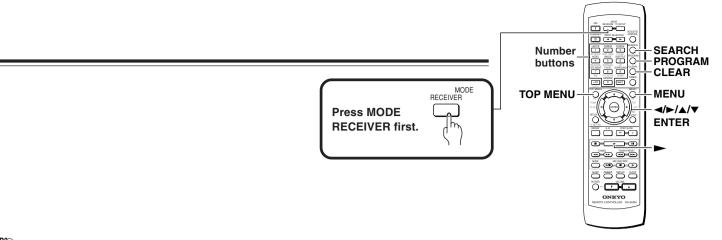
chapter or track starts. When a time search is performed, playback begins at the

Notes

- For some discs, selection can be made using the top menu on the DVD. In this case, press TOP MENU to display the menu screen and then make your selection.
- With some DVDs, the search operation may not be possible and may stop shortly after being performed. In this case the 🎥 mark will appear on the screen.
- Time search is not possible with CDs and MP3s.
- · When performing DVD or Video CD time search, playback may start from a slightly different time than that specified.
- Time search is not possible when the disc is stopped.
- Searching using time search is not possible during PBC playback • of Video CDs.

■ To perform a direct title or chapter/track search using the number buttons

- Press the number buttons while the disc is stopped to select a title or track number.
- · Press the number buttons while the disc is playing to select a chapter or track number.
 - To select number 3, press 3.
 - To select number 10, press +10 and 0.
 - To select number 37, press +10, +10, +10 and 7.



MP3

Using the MP3 Navigator

Use the MP3 Navigator to make searching for the track(s) you want to play easier. You can also use it to add or clear tracks from the program list.

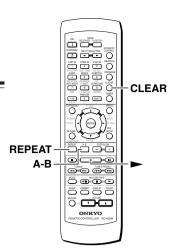
1	Load a CD-ROM containing MP3 tracks.
	Press MENU to enter the MP3 Navigator screen. The left side of the screen shows a list of
	folders containing MP3 tracks.
	Total number of Tracks
	Current : 1-3 MP3 Navigator 1~1 Folder Track 1~20 2.F_001 1.01 LOO-1 2.02 SWE-1 3.6_003 3.03 FAL-1 4.04 CAR-1 5.05 SOS-1
	Total number of Folders
	If you display the MP3 Navigator when a disc is playing, the currently playing folder and track numbers are shown at the top left of the screen.
	On the right side is a list of MP3 tracks from the first folder in the list on the left.
	Current : > 1-3 MP3 Navigator 1-1 Folder Track 1-20 I.F_001 1.01 L00-1 1.02 I.F_002 2.02 SWE-1 1.03 SFL-1 I.F_003 3.7 FL-1 3.03 SFL-1 I.OL CAR-1 5.05 SOS-1 I.01 COR-1 CLEAR Clear ENTER Play SETUP Exit

■ Navigate using the following controls:

	<u> </u>
Cursor buttons (◄/►)	Select folder or tracks from the current screen.
Cursor buttons (▲/▼)	Select the previous/next folders or tracks. To move rapidly up or down a long list of folders or tracks, press and hold the Cursor buttons (\blacktriangle/Ψ) .
ENTER	Play the currently selected folder or track. MP3 tracks that are unplayable on this system are automatically skipped and the display shows "UNPLAYABLE".
MENU	Exit the MP3 Navigator
PROGRAM	Add the currently selected track to the program list. (Tracks in the program list are marked $\sqrt{2}$.) Pressing PROGRAM repeatedly will add the track to the program list repeatedly.
	See "Programming MP3s" on page 60 for how to use program play.
CLEAR	Clear the currently selected track from the program list.

Repeat Play

You can repeat an entire title, folder, chapter or track, or just a part.



, DVD, , VCD, , CD, , MP3

Repeating a Disc, Title, Folder, Chapter or Track

REPEAT

Press REPEAT repeatedly. Each time you press REPEAT, the repeat

mode changes as follows:

(Characters in parentheses appear in the front panel display.)

,DVD>

Repeat Chapter (REPEAT CHP) → Repeat Title (REPEAT TTL) \rightarrow Repeat Off (Previous display) ୍ଏପର୍ ପର୍ଚ୍ଚ

Repeat Track (REPEAT TRK) → Repeat Disc (REPEAT DSC) → Repeat Off (Previous display)

MP3

Repeat Track (REPEAT TRK) → Repeat Folder (REPEAT FLD) → Repeat Disc (REPEAT DSC) → Repeat Off (Previous display)

"RPT" indicator lights up.

RPT

To repeat a program

Press REPEAT once during program playback to repeat the program.

To cancel repeat play

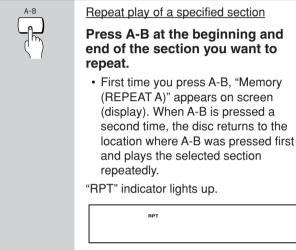
Press CLEAR. Playback continues, but the repeat function is canceled.

Note

If you press I during track repeat or chapter repeat, the repeat mode may be cancelled.

כסג, פטע, כסע

Repeating a Specific Segment



Return to a specified location on a disc

- 1 Press A-B at the desired location.
- 2 When you want to return to the specified location, press ►.

To cancel A-B repeat play

Press CLEAR. Playback continues, but the repeat function is canceled.

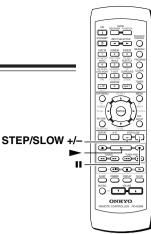
To clear the specified location

Press CLEAR to cancel repeat play or to clear the specified location that was set using A-B.

- · With some DVDs, there may be times when repeat playback is not possible. In these cases, the S mark will appear on the screen.
- · With Video CDs, repeat play is not possible when the menu is displayed (PBC playback). To perform repeat play, start playback without displaying a menu by pressing the track number to be repeated when the disc is stopped, and then press REPEAT.
- · You cannot use A-B repeat when listening to an MP3.
- If you switch camera angle during repeat play, repeat play is cancelled

Still Frame/Slow Play

The video images on DVD and Video CD can be viewed as a still frame, played back at slow speeds and even advanced frame by frame.



ovo coo

Viewing a still frame



Press II, STEP/SLOW +/-.

When viewing a DVD, if the paused picture shakes, select the [Field] setting in the Setup screen Video 2 menu [Still Picture] setting as described in the section on page 74.

Frame by frame advance playback: Viewing one frame at a time

You can't use frame review with Video CDs.

- 1 Press III, STEP/SLOW +/-.
- 2 Press STEP/SLOW +/-.
 - STEP/SLOW +: The picture advances one frame each time the button is pressed.
 - STEP/SLOW -: The picture backs up a DVD a few frames each time the button is pressed.

To return to normal playback

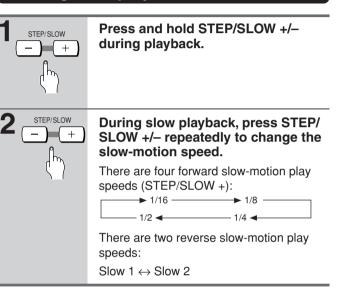
When viewing a still frame playback, pressing \blacksquare or \blacktriangleright restores normal playback operation.

Notes

- There is no sound when viewing still frames or slow playback, or when advancing one frame at a time.
- Still frame, slow play, or frame advance playback may not be possible with certain titles. In this case, the Se mark is displayed.

DVD VCD

Viewing slow playback



Note

You can't use slow reverse play with Video CDs.

To return to normal playback

When viewing a slow playback, pressing \blacktriangleright restores normal playback operation.

Playing in a Favorite Order

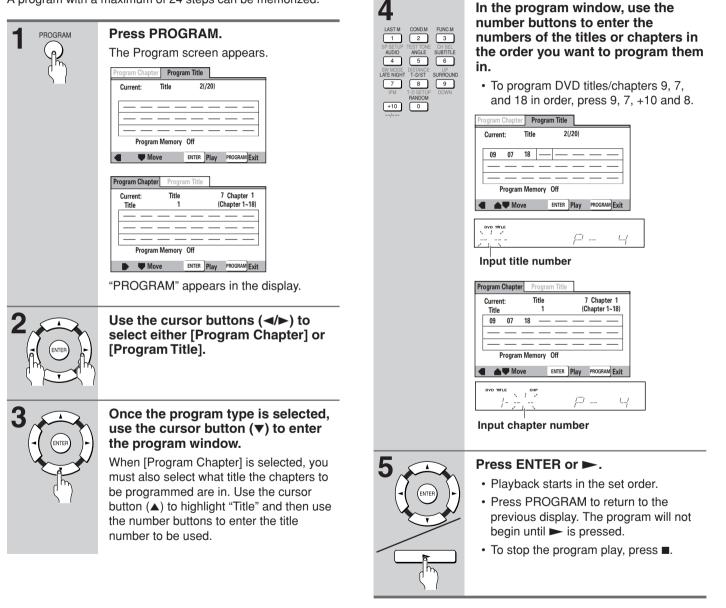
The titles and chapters within a title on a DVD and similarly MP3, CD and Video CD tracks can be arranged to play in the order you want.

With this DVD receiver, it is possible to make a program as you watch a DVD or Video CD or while listening to an MP3 or a CD.

DVD

Programming DVDs

A program with a maximum of 24 steps can be memorized.



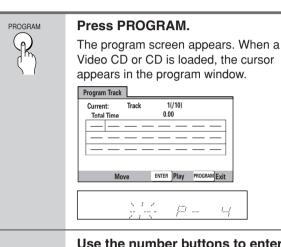
- When programming chapters, chapters not programmed may appear on the screen. This is not a malfunction.
- Programming may not be possible with certain DVDs. On these types of discs, the mark will appear on the screen when programming is attempted.
- Only chapters within the same title can be programmed during chapter programming.

Number 4 5 6 PROGRAM buttons TENGHT T-OST SURFOLME CLEAR Press MODE (ENTOP) **RECEIVER** first. ∢/⊳/∡/▼ ENTER ___! Ģ н ONKYO

ଏହା ସେଥ

Programming Video CDs, CDs

A program with a maximum of 24 steps can be memorized.





(+10) RANDOM

Use the number buttons to enter the numbers of the tracks in the order you want to program them in.

- To program tracks 9, 7, and 18 in order, press 9, 7, +10 and 8.
- To edit the program, refer to the procedures on the previous page.

Press ENTER or ►.

- Playback starts in the specified track order.
- Press PROGRAM to return to the previous display. The program play will not begin until ► is pressed.
- To stop the program play, press ■.

Note

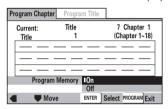
C

• You cannot program when playing a Video CD using menu selections (during PBC).

■ To save a program in memory

This DVD Receiver can memorize the programs on up to 24 DVDs. By turning the [Program Memory] to [On], the DVD Receiver will save your program and recall it the next time you use the same DVD. When the program memory exceeds 24, programs will be erased in chronological order from the oldest program in memory.

1 Use the cursor button (▼) to highlight [Program Memory] and use the cursor button (►) to select [On].



2 Press ENTER.

The program is saved in memory.

Note

When a DVD with a program stored in memory is loaded, program playback may start automatically.

■ To erase a program saved in memory

The DVD receiver erases programs in chronological order when the maximum number of programs that can be held in memory is exceeded. To prevent the DVD receiver from erasing older programs that you may still use regularly, or when you don't want to use a program anymore, it is possible to manually erase programs stored in memory.

- 1 Load a DVD that has a program stored in memory.
- 2 Press PROGRAM.
- The program screen appears.
- 3 Use the cursor button (▼) to highlight [Program Memory] and use the cursor buttons (►/▼) to select [Off].
- 4 Press ENTER.
- The program is cleared from memory.

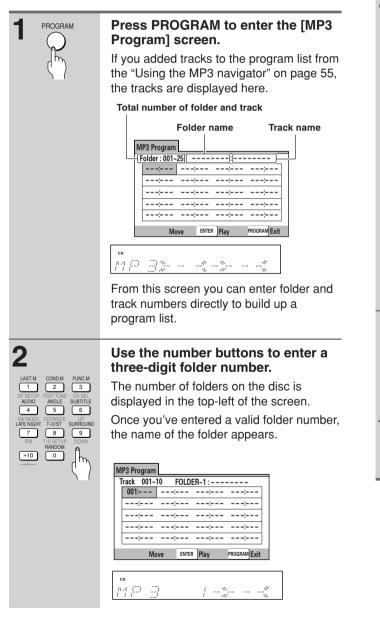
If you press CLEAR in stop mode, the program will be cleared from memory and [Program Memory] will be turned to [Off].

Playing in a Favorite Order

MP3

Programming MP3s

A program with a maximum of 24 steps can be memorized.



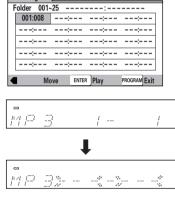


Use the number buttons to enter a three-digit track number.

The number of tracks in the current folder is displayed in the top-left of the screen.

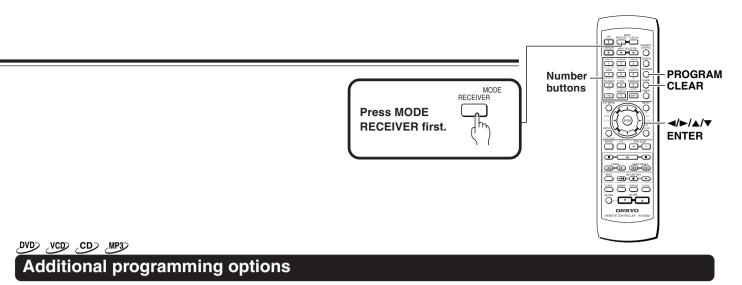
Once you've entered a valid track number, the name of the track appears.

MP3 Program



Press ENTER or ►.

- Playback starts in the set order.
- Press PROGRAM to return to the previous display. The program will not begin until ► is pressed.
- To stop the program play, press ■.



After you have made a program, it is then possible to confirm. add, or clear the contents of the program.

To confirm the contents of a program

On a CD or Video CD track program, press PROGRAM to confirm.

The program screen displays the current program.

On a DVD, select the program type (title or chapter) with the cursor buttons $(\checkmark \blacktriangleright)$.

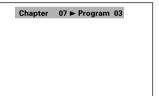
The current DVD title or chapter program can then be confirmed on the appropriate program screen.

To add to a program

- Press PROGRAM. 1
- 2 Use a number button to add a new title, chapter, or track at the end of the program.
- Press PROGRAM to exit the program screen. 3

To add a title/chapter/track to a program during playback

Press and hold PROGRAM for about 2 seconds. The current title/chapter/track number appears on-screen together with the program step number. If there isn't already a program then a new one will be created. e.g. DVD



To insert a number

- Press PROGRAM. 1
- 2 Use the cursor buttons $(\blacktriangle/\bigtriangledown/\checkmark/\blacktriangleright)$ to highlight the number after the new number to be placed and then press the number button(s) of the number to be inserted. The new number is inserted before the previously selected number.
- 3 Press PROGRAM to exit the program screen.

■ To delete a number

- Press PROGRAM. 1
- 2 Use the cursor buttons $(\blacktriangle/\bigtriangledown/\checkmark/\blacktriangleright)$ to highlight the incorrect number and then press CLEAR.
- The number is deleted. If the number was before another number, the later numbers are reordered automatically.
- 3 Press PROGRAM to exit the program screen.

- · The complete program will be deleted if the disc tray is open or power off (standby).
- · Pressing CLEAR when the disc is stopped will clear all programs.

Random Play

Play titles, chapters, or tracks on a disc in random order.

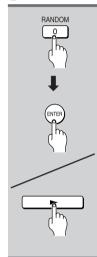
Before operating the remote controller Press SHIFT.

This switches the functions of buttons. Press the desired button within 10 seconds after pressing this button.

DVD VCD CD MP3

Playing in Random Order

DVD



Random playback of chapters within one title

Press RANDOM once, then press ENTER or ►.

"Random Chapter" appears on the screen, and chapters within the title will be played back in random order.

Random playback of titles

Press RANDOM twice, then press ENTER or ►.

"Random Title" appears on the screen, and titles will be played back in random order.

"RDM" appears in the display.

To change titles or chapters during random play

- Press ►►I or RANDOM and the next randomly selected title or chapter starts playing.
- Press I and playback of the current title or chapter starts again from the beginning.

To stop random play

Press CLEAR. This returns you to normal playback of chapters in order from the chapter currently playing.

Notes

- Random play of programmed chapters is not possible.
- Random playback may not be possible with some DVDs.
- Repeat playback of random playback is not possible.

VCD CD MP3



Random playback of tracks

Press RANDOM.

"Random" appears on the screen, "RDM" appears in the display, and playback begins.

■ To change tracks during random play

- Press >> or RANDOM and the next randomly selected track starts playing.
- Press I and playback of the current track starts again from the beginning.

To stop random play

Press CLEAR. This returns you to normal playback of chapters/tracks in order from the chapter/track currently playing.

- With Video CDs, random play is not possible during playback when the menu is displayed (PBC playback). To perform random play, start playback without displaying a menu by pressing a track number button while in the stop mode, and then press RANDOM.
- · Random play of programmed tracks or chapters is not possible.
- · Repeat playback of random playback is not possible.
- You cannot use random play while using MP3 navigator.
- · Random playback may not be possible with some DVDs.

Selecting the Audio/ Subtitle Language

Before operating the remote controller Press SHIFT.

This switches the functions of buttons. Press the desired button within 10 seconds after pressing this button.

DVD

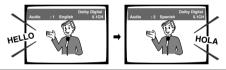
Changing the Audio Language (Multi-Language Function)

Dolby Digital, PCM, and other audio data can be recorded on DVDs in a number of languages or audio tracks, letting you choose the desired language or audio.



Press AUDIO repeatedly to select the desired language.

Pressing AUDIO once displays the currently selected language. Subsequent presses rotates through the audio languages available on the DVD.



Notes

- You cannot switch languages if there is only one language recorded on the disc.
- Switching the audio language may not be possible with some titles. In this case, the S mark will be displayed.
- For some titles, selection can be made using the DVD menu. In these cases, press MENU to display the DVD menu screen and then make your selection.
- When you erase the resume position or replace a disc, the DVD receiver returns to the automatic setting in the setting menu (page 75).

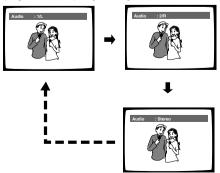
■ Changing Audio Type

VCD MP3

For enjoyment of karaoke or similar format Video CDs and MP3s it is possible to select stereo audio, or either right or left channel mono depending on the requirements of the source.

Press AUDIO repeatedly during playback to switch the audio type.

Audio output changes from [1/L] (Left channel) to [2/R] (Right channel) to [Stereo].



Note

With karaoke and other discs, set the appropriate audio type for singing and accompaniment after referring to information on the disc jacket or accompanying material. DVD

Selecting a Subtitle Language (Multi-Language Subtitles)

You can select a desired subtitle language with DVDs that have subtitle data in multiple languages recorded on them.



Press SUBTITLE repeatedly during playback.

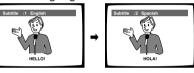
AUDIO

SUBTITLE

CLEAR

MENU

Pressing SUBTITLE once displays the currently selected subtitle language. Subsequent presses rotates through the subtitle languages available on the DVD.



- The subtitle language cannot be switched if the subtitle language is not recorded, or if only one language is recorded.
- Switching the subtitle language may not be possible with some discs. In this case, the S mark will be displayed.
- To clear subtitles during playback, press SUBTITLE and then press CLEAR, or press SUBTITLE until [Off] appears.
- For some discs, subtitle language selection can be made using the menu on the DVD. In this case, press MENU to display the DVD menu screen and then make your selection.
- When you erase the resume position or replace a disc, the DVD Receiver returns to the automatic setting in the setting menu (page 76).

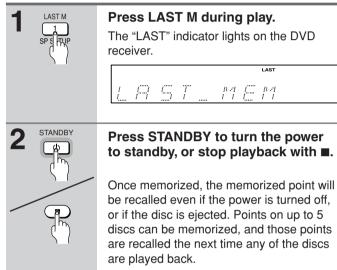
Continuing Playback from a Specified Location (Last Memory)

The Last Memory function is convenient when you want to continue viewing a disc from the point where you were watching before. Unlike the resume function, the Last Memory function is effective even if the DVD is removed from the DVD receiver (Last Memory locations saved for Video CDs are effective only if the disc remains loaded in the DVD receiver).

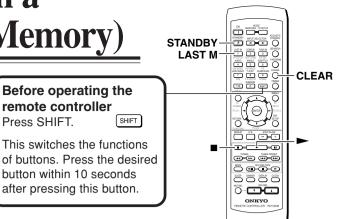
Last Memory may not work reliably with some Video CDs that feature PBC.

DVD VCD

Memorizing a Last Memory location to return to later



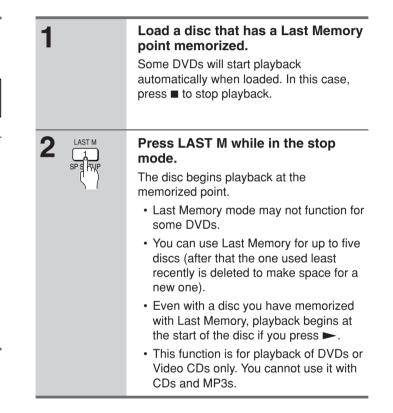
A Last Memory point can be memorized for only one Video CD at a time as the function is only effective until the Video CD is removed from the player.



DVD VCD

Press SHIFT.

Resuming playback from where LAST M was pressed



To clear the Last Memory location

- 1 Load a disc that has a Last Memory point memorized. Some DVDs will start playback automatically when loaded. In this case, press ■ to stop playback.
- 2 Press LAST M while in the stop mode. The disc begins playback at the memorized point.
- 3 Once the picture appears, press LAST M again.
- 4 While "Last Memory" is displayed on the screen, press CI FAR.

The "LAST" indicator disappears from the display.

Condition Memory/Selecting the Camera Angle

You can store in memory settings for DVDs you often watch. Settings remain in memory even if you remove the disc from the DVD receiver, or switch power to the DVD receiver to standby. If you load a disc that has its settings memorized, "COND. MEM" appears in the display. When you start playing the disc, the memorized settings are automatically recalled.

DVD

Memorizing Settings for DVDs



Press COND.M during playback.

Settings are memorized for the disc currently playing. The following six settings are memorized: On Screen Display (page 74) Video Adjust (page 72) Camera-Angle (this page) Multi-language (page 63) Multi-Language subtitles (page 63)

Parental Lock Level (pages 79, 80)

When a disc that has memorized settings is loaded

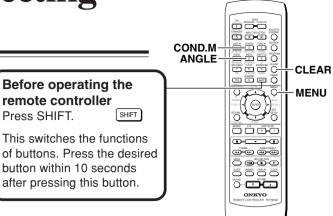
"Condition Memory" will appear on the screen, and the previously memorized settings will be selected.

Erasing the recorded contents

Load a disc that has memorized settings, and press CLEAR while "Condition Memory" is being displayed. The disc's recorded data will be erased.

Notes

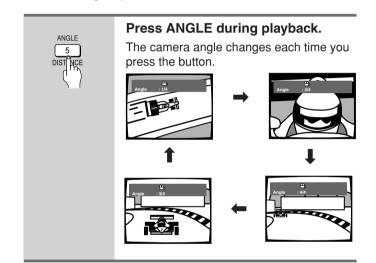
- · Settings are stored in memory for use any time.
- You can use Condition Memory for up to 15 discs (after that the one used least recently is deleted to make space for a new one).
- If you make changes to any of the settings memorized in Condition Memory, press COND. M during playback to memorize new settings.
- Switching of the multi-language mode etc., is automatic on some discs.



DVD

Viewing from a Desired Camera Angle (Multi-Angle)

You can select a camera angle when viewing DVDs with the multi-angle option.



Notes

- You can use the Multi-Angle function only with discs featuring recordings of images shot from different camera angles.
- For some discs, selection can be made using the DVD menu. In this case, press MENU to display the DVD menu screen and then make your selection.
- If you change the camera angle during still playback, the DVD Receiver resumes normal playback.

To check whether or not a disc is recorded with angles

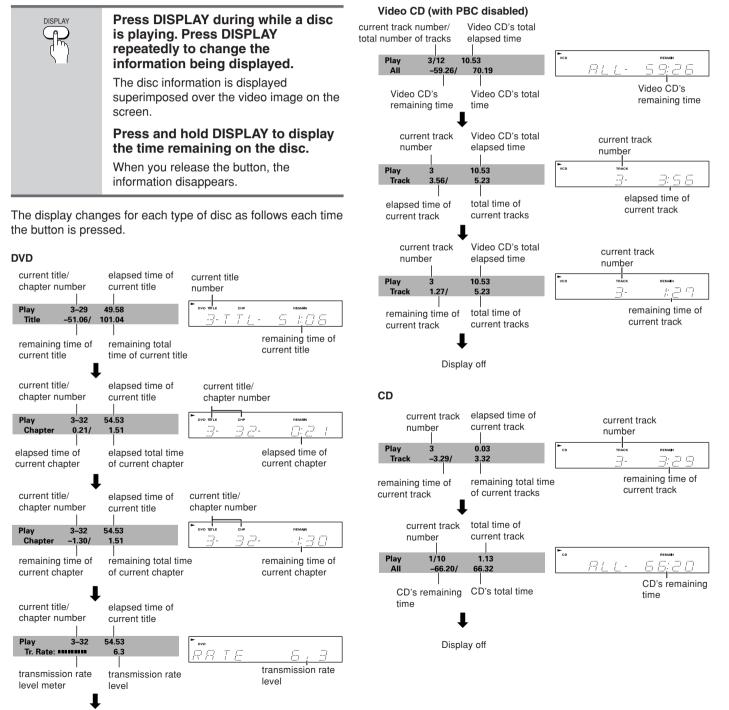
The jackets of discs that are recorded with angles will be marked with \bigcirc_{1} . When locations on discs that are recorded with angles are played back, the \bigcirc_{1} indicator can be displayed. To cancel the angle mark, set [Angle Indicator] to [Off] in the Setup screen Video menu described in the section below (page 74).

Viewing Disc Information

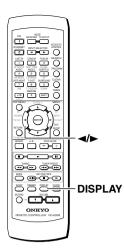
Use DISPLAY to get current information about the disc currently loaded. You can get information about the titles and chapters on a DVD or tracks on a Video CD or CD or folders and tracks on a MP3. When viewing DVDs, you can also check the digital bitstream transmission rate.

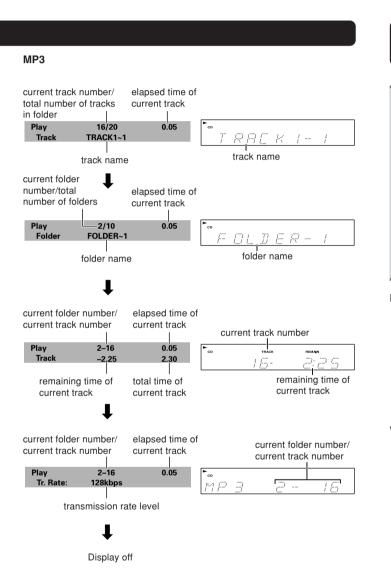
EVD VCD CD MP3

Viewing Disc Information during while a disc is playing



Display off





Notes

- Depending on the format and type of disc being used, not all screens may be displayed.
- When playing Video CDs in PBC mode or unfinalized CD-Rs not all the above information is displayed.

DVD , VCD , CD , MP3

Viewing Disc Information while a disc is stopped



Press DISPLAY while a disc is stopped to display DVD title and chapter information or Video CD and CD track information or MP3 folder and track information. Press DISPLAY again to turn the display off.

Information about the titles and chapters or folders and tracks on a disc is displayed. When the information exceeds the space on the screen, use the cursor buttons $(\blacktriangleleft/\succ)$ to move to other screens.

DVD Information: DVD

iniornation			
Title	Chapter	Title	Chapter
01	1~30	06	1 ~ 10
02	1~21	07	1 ~ 13
03	1 ~ 46	08	1~5
04	1 ~ 12	09	1~4
05	1~8	10	1~8
1/2	•		DISPLAY Exit

Titles and number of chapters in each title

Video CD and CD

Information: 0	Compact Disc		
Total tim	ie	72.04	ļ
Track	Time	Track	Time
01	5.23	06	6.51
02	4.55	07	3.18
03	6.13	08	6.50
04	5.45	09	4.16
05	5.10	10	3.22
1/2	•		DISPLAY Exit

Total playing time of disc, tracks and track times

MP3

Information: N	1P3		
Folder	Track	Folder	Track
001	1~9	01	1~10
002	1~11	02	1 ~ 13
003	1~3	03	1~5
004	1~22	04	1~4
005	1 ~ 15	05	1~8
1/2 🕨			DISPLAY Exit

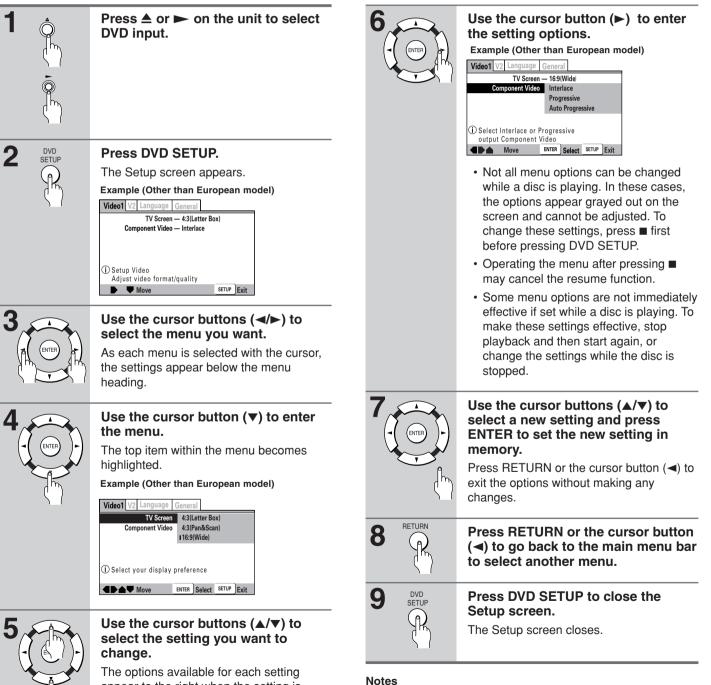
Folders and number of tracks in each folder

Customizing the Function Settings

The procedure on this page describes how to operate the menus on the Setup screen. These menus are used to set and adjust a number of system settings. The various functions that can be adjusted are covered throughout this manual. The procedure on this page provides a basic outline for using the Setup screen menus.

CD CD CD MP3

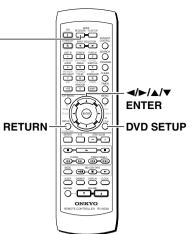
Using the Setup Screen Menus



The options available for each setting appear to the right when the setting is selected. The current setting appears with the setting indicator lit.

- If you turn off the DVD Receiver during setup, the settings are canceled. Press DVD SETUP to finish the setup.
- The memorized resume position may be erased by setup.
- The Setup screen always shows the latest settings.

Press MODE RECEIVER first.



When setting up for the first time

It is recommended to set up the DVD receiver using the Setup Navigator (page 32). If you selected [Auto Start Off] when the Setup Navigator appeared, you may still set up the DVD Receiver using the Setup Navigator in the General menu screen.

If you choose not to use the Setup Navigator, be sure to make the necessary settings in the Setup screen Video 1, Video 2 and Language menus as described on the following pages. Some DVDs start playing automatically when loaded in the DVD Receiver. If a DVD has been loaded, be sure to press ■ before proceeding.

Note

The next time you press DVD SETUP, you'll see the menu screen that you exited from last time.

How to interpret the setting indicator colors in the Setup screen menus

When setting up the system, or when making adjustments, it is convenient to know what settings are applicable to the different disc formats. When the settings appear for each menu option, the currently selected setting appears with the setting indicator highlighted in one of three colors: blue, green or yellow. These colors correspond to what formats the menu option effects as shown in the table below.

Color of indicator	Disc format(s)
Blue	DVD only
Yellow	DVD/Video CD
Green	All compatible formats

Note

If a setting applicable only to DVDs is changed while a Video CD or CD is loaded, a blue DVD icon appears in the upper right hand corner of the screen to indicate that the setting is not applicable to the currently loaded disc. The setting will be effective the next time a DVD is loaded.

Changing to the Setup Screen "Expert" Menu Mode

The Setup screen menus are divided into two levels, [Basic] and [Expert], to make this unit more convenient to operate for different levels of users. The [Basic] menu mode contains functions that may be considered necessary for the basic operations of this DVD Receiver and helpful on-screen information identified by the ① mark. The [Expert] menu mode adds to the [Basic] menu mode additional functions of the DVD receiver that can be adjusted to further personalize performance of the DVD receiver.

In this manual, functions that are contained in the [Expert] menu mode are identified by the Expert icon. Make changes to the [Setup Menu Mode] setting in the Setup

screen General menu.

Video1 V2 Language	General			
Setup Menu Mode	Expe	rt		
Setup Navigator	Basic			
Parental Lock	. — Off (u	is)		
 Change menu mod Move 		Select	SETUP	Exit

Settings: Expert

Basic (Factory setting)

Note

On-screen information only appears in the [Basic] menu mode .

Setting the TV Screen Size

The width-to-height ratio of conventional TVs is 4:3, while the width-to-height ratio of wide screen and high-definition TVs is 16:9. This width-to-height ratio is called the aspect ratio. When viewing software recorded in different aspect ratios, the image's height to width ratio can be switched to match the TV or monitor being used.

Make changes to the TV screen size in the [TV Screen] setting in the Setup screen Video 1 menu. Please note that changes to the [TV Screen] setting cannot be made when a disc is playing. Stop playback of the disc before attempting to make any changes.

Example (Other than European model)

Video1 V2 Language	General				
TV Screen 4:3(Letter Box)					
Component Video 4:3(Pan&Scan)					
	16:9(Wide)				
①Select your display preference					
▲ Move		SETUP Exit			

Settings: 4:3 (Letter Box)

4:3 (Pan & Scan)

16:9 (Wide) (Factory setting)

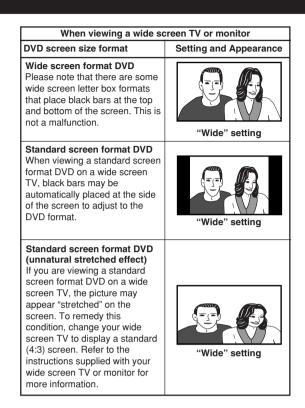
Notes

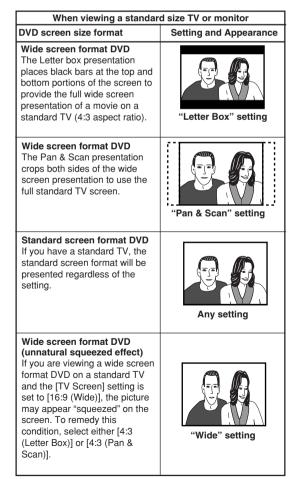
- If [Standard (4:3)] is selected in the Setup Navigator screen, [4:3 (Letter Box)] is selected on this screen. If you prefer the pan&scan format, change the settings on this screen.
- Whether the aspect can be switched or not depends on the disc. Please refer to the information written on the disc jacket, etc.
- Some discs may not include the screen format selected in the [TV Screen] setting. When this occurs, the standard TV screen format available on the disc is automatically selected.

Differences in screen sizes and DVD formats

The number of screen size formats currently available can be somewhat confusing. If set incorrectly, the video presentation may not appear as it should. The following diagrams and descriptions are intended to help you set your TV screen size in a way that will allow you to fully enjoy the digital video of DVD.

The settings in the [TV Screen] setting are perhaps most applicable when the DVD you are watching is programmed in the wide screen format. If you have a standard TV, select either [4:3 (Letter Box)] or [4:3 (Pan & Scan)] based on your personal preference. If you have a wide screen TV, select [16:9 (Wide)].

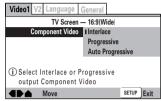




Setting the Video 1 Options

Connecting to a progressive scancompatible TV (Other than European model)

Compared to a standard interlaced TV picture, a progressive scan TV is capable of stable, flicker-free images. Set only if you connected the COMPONENT VIDEO OUT jacks to a progressive scan-compatible TV or monitor. Make changes to the [Component Video] setting in the Setup screen Video 1 menu.



Settings: Interlace (Factory Setting)

Use this setting with regular TVs that are not compatible with progressive scan. Check the TV's instruction manual if you are not sure about this.

Progressive

Use this setting with TVs and monitors that have progressive scan component video inputs. The PRGV indicator lights up. Check the TV's instruction manual if you are not sure about this.



Auto Progressive

Switches to progressive scan when 16:9 DVDs are played,4:3 DVDs uses interlace setting. Your TV/ monitor must be compatible with progressive scan to use this setting.

Тір

If this DVD Receiver is set to output progressive-scan video, it's possible that the picture will appear stretched when playing discs recorded in 4:3 format. This happens when the TV's aspect ratio is set at 16:9. To see the picture in its correct aspect ratio, change the TV setting to 4:3.

If your TV can not be switched between 4:3 and 16:9, set this DVD Receiver to [Interlace] or [Auto Progressive]. In Auto progressive mode, 4:3 discs will be played in Interlace mode, while discs that are recorded in both 4:3 and 16:9 will play in interlace mode during the 4:3 sections, and in progressive mode during the 16:9 parts. Switch your TV's aspect ratio to the most suitable setting (for more details, see the manual that came with your TV). When set to [Auto progressive], you may see picture disturbance when this DVD receiver (and the TV) switches between progressive and interlace modes. This is not a malfunction of either this DVD receiver or the TV. Picture disturbance should only occur when switching from a menu screen to the main feature, for example.

Notes

- If you connect a TV that is not compatible with a progressive scan signal and choose one of the progressive scan settings, you will not be able to see any picture at all. With your TV connected using either the composite or S-Video terminals, choose the [Interlace] setting in the [Component Video] menu.
- * Expert denotes more detailed settings. If the item is not displayed, please refer to page 69 to display it.

Setting the Video Output Format for the AV CONNECTOR (European models)

When connections are made to the AV CONNECTOR jack on the DVD receiver via a SCART cable, it is possible to select the video format that is compatible with your TV or monitor. Select [Video] to have a composite video signal output, [S-Video] to have an S-video signal output, and [RGB] to have an RGB signal output. For more information on which format is most appropriate, refer to the instructions supplied with your TV or monitor.

Make changes to the [Video Out] setting in the Setup screen Video 1 menu.



Settings: Video (Factory setting) S-Video RGB

Switching the S-Video Output Expert

You can switch the kind of S-Video signal output from the S-Video outputs. If you connected your TV with an S-Video cord, in rare cases the TV picture may appear stretched. In this case switch the output from [S2] to [S1]. Make changes in the [S-Video Out] in the Setup screen Video

1 menu in the [Expert] menu mode (page 69).

Example (Other than European model)

Video1 V2 Language	General			
TV Screen	— 16:9(W	/ide)		
Component Video – S1				
S-Video Out	I S2			
Screen Saver — On				
		SETUP		

Settings: S1

S2 (Factory Setting)

■ Turning the Screen Saver On and Off Expert

As a protective function against residual images on the TV screen or monitor, a phenomenon referred to as "screen burn", the screen saver appears when the same screen has been displayed for a length of time. By default, the screen saver is turned on. However, the screen saver function can be turned on and off at your discretion.

Make changes to the [Screen Saver] setting in the Setup screen Video 1 menu in the [Expert] menu mode (page 69).

Example (Other than European model)

Video1 V2 Language	General			
TV Screer	n — 16:9(Wide)			
Component Video — Interlace				
S-Video Out — S2				
Screen Saver 10n				
	Off			
Move		SETUP		

Settings: On (Factory setting) Off

Adjusting the Video Quality

You can either select a preprogrammed setting designed to match certain program types or make adjustments to match your own preferences and save them in the DVD receiver's memory.

Make changes to the [Video Adjust] setting in the Setup screen Video 2 menu.



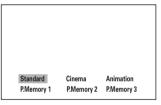
Selecting a preprogrammed setting

1 Use the cursor button (►) to select [Start] then press ENTER.

Setting items vary depending on the settings in the Setup screen Video 1 menu.



```
2 Press ENTER.
```



Standard (Factory Setting) Presents the video with no effect added.

Cinema

Delivers a cinema-like picture.

Animation

Provides images with bright clear colors.

Memory 1, Memory 2, and Memory 3

(P.Memory 1, P.Memory 2, and P.Memory 3)

These are user programmable settings. See "Adjusting the picture quality settings" on this page and page 73 for more information.

3 Use the cursor buttons (◄/►/▲/▼) to select one of the preprogrammed picture quality settings.
 If there is a DVD or Video CD playing, the effects of each setting can be viewed while it is highlighted on the screen. This may be useful in selecting an appropriate setting.

4 Press ENTER.

The new selection is set.

Notes

- Each picture quality setting is defined by a number of individual settings, described in "Adjusting the picture quality settings" on this page and page 73.
- Depending on the disc and the TV/monitor, you may not see the effect clearly.

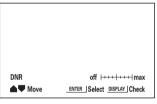
- Adjusting the picture quality settings - To create your own setting (1)
- 1 Use the cursor button (►) to select [Start] then press ENTER.



2 Use the cursor button (▼) to select [Video Setup] then press ENTER.



3 Use the cursor buttons (◄/►) to select the setting to [On] or [Off].



4 Use the cursor buttons (▲/▼) to select the setting to adjust. You can adjust any or all of the following picture quality factors:

<Other than European model when set to [Progressive] or [Auto Progressive] in the Setup screen Video 1 menu.> DNR

Controls the amount of signal noise in the luminance component of the video signal.

Sharpness

Adjusts the sharpness of the mid-frequency (less detailed) elements in the picture. (This setting is only effective when [Fine Focus] is [On].)

Detail

Switch on to reveal greater detail (higher resolution) in the picture.

Chroma Delay

Adjusts how saturated colours appear.

Gamma

Adjusts the brightness of the darker images in the picture.

Prog. Memory

Program the current settings.

* Expert denotes more detailed settings. If the item is not displayed, please refer to page 69 to display it.

<Other than European model when set to [Interlace] setting in the Setup screen Video 1 menu and European model> Fine Focus

Switch [On] to reveal greater detail (higher resolution) in the picture.

Contrast

Adjusts the contrast of the elements in the picture.

Sharpness

Adjusts the sharpness of the high-frequency (detailed) elements in the picture. (This setting is only effective when [Fine Focus] is [On].)

Chroma Level

Adjusts how saturated colours appear.

Hue

Adjusts the overall colour balance between red and green. (This is only effective when the DVD receiver is connected using the VIDEO OUT or S-VIDEO OUT jacks.)

Memory (Interlace Memory)

Programs the current settings.

- 5 Use the cursor buttons (◄/►) to adjust the settings. Adjust these while a disc is playing to see the effect of changes immediately.
- 6 Repeat steps 4 and 5 to make adjustments to other settings.

If you would like to save the settings in the DVD receiver's memory, be sure to select either [1], [2], or [3] in the [Prog. Memory] or [Memory (Interlace Memory)] setting to establish which memory location to save the new settings in. Please note that if you select a location where settings have already been saved, the old settings will be replaced by the new ones.



7 When you are finished making adjustments, press ENTER to establish the new settings.

Тір

Progressive scan video has a greater scanning line density than standard interlace video. Graininess is minimized and you can enjoy a soft picture even with a big screen. *1

Progressive-scan compatible TVs also have on board progressive circuits. If you prefer, choose "Interlace" in this unit's setup screen to view progressive-scan video adjusted by the TV's on board circuits. If the TV is incompatible with this unit's progressive output, picture disturbance occurs. For this type of problem, switch this unit's output to Interlace.

*1 When using a progresive-scan compatible TV.

Adjusting the picture quality settings – To create your own setting (2)

 Use the cursor button (►) to select [Start] then press ENTER.



- 2 Use the cursor button (▼) to select [Video Setup] and press ENTER.
- 3 Press DISPLAY.

DNR	off HIII I I I I I I I I I I I I I I I I
Sharpness	On Off
Detail	min 🔤 💷 🗆 Imax
Chroma Delay	min⊢++++ + + + max
Gamma	green ┝++++┥+++ red
Memory	Off 1 2 3

- 4 Use the cursor buttons (▲/▼) to select the setting and use the cursor buttons (◄/►) to adjust the settings.
 Adjust these while a disc is playing to see the effect of changes immediately.
- 5 To memorize the setting, select Memory 1, 2, 3, then press ENTER.

The previous setting will be erased.

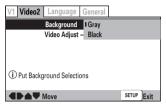
Setting the Video 2 Options

Changing the Background of the Screen

You can select a background to appear when the DVD

Receiver is in the stop mode.

Make changes to the [Background] setting in the Setup screen Video 2 menu.



Settings: Gray

Black

■ Selecting the Type of Paused Image to Display Expert

This function lets you view a clear still-image when DVD playback is paused.

Make changes in the [Still Picture] setting in the Setup screen Video 2 menu in the [Expert] menu mode (page 69).



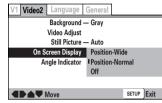
Settings: **Field** (Picture shake will be eliminated during a paused picture.)

Frame (Select to obtain higher picture quality.) Auto (Selects [Field] or [Frame] automatically according to the disc.) (Factory setting)

■ Setting the Position of the On-screen Display Expert

When watching conventional software on a wide screen TV, the operation display is at the very top of the screen, and may be difficult to see. Changing the position of the display lets you see operation indicators clearly even on a wide screen TV. Alternatively, you can choose to turn them off completely with the [Off] setting.

Make changes in the [On Screen Display] in the Setup screen Video 2 menu in the [Expert] menu mode (page 69).





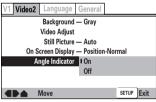
Note

This setting is only effective with DVDs that contain a 4:3 aspect ratio video presentation.

■ Turning the angle indicator on and off Expert

When a picture recorded in different angles is played back $\stackrel{\mbox{\scriptsize Cl}}{=}$ is displayed on the screen. This setting lets you see clearly whether the playback picture is recorded in multiple angles or not.

Turn the angle indicator on or off in the [Angle Indicator] setting in the Setup screen Video 2 menu in the [Expert] menu mode (page 69).



Settings: **On** (A is displayed) (Factory setting) **Off** (Not Displayed)

Note

Even when the [Angle Indicator] setting is set to [Off], the 2 indicator in the display panel of the DVD Receiver lights during multiangle playback. Therefore, it is possible to know when the multiangle function can be used without having to display the icon on the screen.

* Expert denotes more detailed settings. If the item is not displayed, please refer to page 69 to display it.

Setting the Language Options

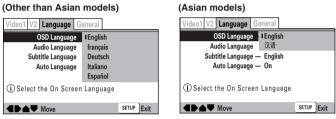
DVDs have the capacity to contain a great deal of audio information, which includes the ability to hold up to 8 different language tracks and subtitle information in as many as 32 different languages. This section outlines the variety of audio language and subtitle options available with this DVD receiver. Please note that if you have completed the Setup Navigator, the audio and subtitle language options have automatically been set in accordance with the [OSD Language] (the language that appears on the screen).

Note

DVDs differ in content and do not all contain multiple language or subtitle information. Therefore making settings in this section may have no effect on some DVDs.

Setting the On-screen Display (OSD) Language

This setting is used to establish the language that operation indicators and on-screen messages and operations display. Change this setting in the Setup screen Language menu [OSD Language] setting.



Settings: English (Factory setting)

français Deutsch Italiano Español

Asian models only

English (Factory setting) 汉语

Notes

- The menu settings may be different from those shown above.
- The [OSD Language] setting is factory set to [English]. If you want English to be displayed, it is not necessary to adjust this setting.

Selecting an audio language preference

The audio language that you normally listen to can be selected from the various audio languages on a DVD. Even when the audio language is changed during playback by pressing AUDIO, the language selected at this setting will be selected as the default when the DVD is changed. Make changes to the [Audio Language] setting in the Setup screen Language menu.

You cannot make this setting with a disc playing.

Other than Asian	models)	(Asian models)			
Video1 V2 Language G	eneral		. [Video1 V2 Language G	ieneral		
OSD Language -	English			OSD Language -	– English		
Audio Language	French			Audio Language	I English		
Subtitle Language	German			Subtitle Language	Chinese		
Auto Language	Italian			Auto Language	Other		
	Spanish						
	Other						
() Setup audio languag	е			() Setup audio languag	е		
		SETUP Exit				SETUP	Exi

Settings: English (Factory setting) French German Italian Spanish Other (For details on how to select other languages, see "When [Other] is selected" on page 77.) Asian models only English (Factory setting)

Chinese Other

Note

The menu settings may be different from those shown above.

Setting the Language Options

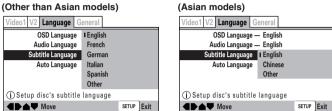
Selecting a subtitle language preference

The subtitle language that you will normally display can be selected from the subtitles programmed on a disc. Even when the subtitle language is changed during playback by pressing SUBTITLE, the language selected at this setting will be selected when the disc is changed.

Make changes to the [Subtitle Language] setting in the Setup screen Language menu.

You cannot make this setting with a disc playing.

(Other than Asian models)



Settings: English (Factory setting)

French German Italian

Spanish

Other (For details on how to select other languages, see "When [Other] is selected" on page 77).

Asian models only

English (Factory setting) Chinese Other

Note

The menu settings may be different from those shown above.

Setting Auto Language to control subtitle and audio language based on program content

When the Auto Language function is used, foreign movies are shown with the original audio soundtrack and subtitles in the language selected in the [Subtitle Language] menu option. Domestic films are shown with the original audio soundtrack and no subtitles. (This setting may not be effective with all DVDs.)

Make changes to the [Auto Language] setting in the Setup screen Language menu.

You cannot make this setting with a disc playing.



Settings: On (Factory setting) Off

Note

The Auto Language function operates only when this function is set to [On], and the language set for the [Audio Language] and [Subtitle Language] settings is the same.

Selecting a DVD menu language preference Expert

In addition to containing different audio languages, DVD may also contain menu screens in different languages as well. Setting a DVD language preference, sets the selected language as a default when DVDs with menu information in that language are encountered.

Selecting [w/ Subtitle Language] automatically assigns the language selected in the [Subtitle Language] setting. Make changes to the [DVD Language] setting in the Setup screen Language menu in the [Expert] menu mode (page 69). You cannot make this setting with a disc playing.

(Other than Asian models) deo1 V2 Language General OSD Language w/ Subtitle Language Audio Language English Subtitle Language French Auto Language German DVD Language Italian Subtitle Display Spanish Subtitle Off Other SETUP Exit



Settings: w/ Subtitle Language (Factory setting)

English French German Italian Spanish Other (For details on how to select other languages, see "When [Other] is selected" on page

77).

Asian models only w/ Subtitle Language (Factory setting) English Chinese Other

Notes

- · The menu settings may look different from the one shown above.
- If this function is not effective, the languages that can be selected may also be selected in the DVD menu. Press MENU to open the DVD menu and make your selection accordingly.

* Expert denotes more detailed settings. If the item is not displayed, please refer to page 69 to display it.

Selecting subtitles, assist subtitles or no subtitles Expert

Use this function to turn the subtitles on or off. Additionally, some DVDs provide assist subtitles that provide additional explanations of scenes in addition to the standard subtitles for viewers who are hard of hearing. Select [Assist Subtitle] to display these subtitles on DVDs where this function is offered. Make changes to the [Subtitle Display] setting in the Setup screen Language menu in the [Expert] menu mode (page 69). You cannot make this setting with a disc playing.

Video1 V2 Language Genera	1			
OSD Language — Eng	lish			
Audio Language — English				
Subtitle Language — English				
Auto Language — On				
DVD Language I On				
Subtitle Display Off				
Subtitle Off Assi	ist Subtitle			
	SETUP Exit			

Settings: On (Factory setting) Off Assist Subtitle

Notes

- If there is no subtitle information recorded on the DVD, no subtitles are displayed even if this function is set to [On].
- This setting serves as a default as whether or not to display subtitles. Even if this option is set to [Off], subtitles can be displayed by pressing SUBTITLE. Similarly, if this option is set to [On], the subtitles can be turned off by pressing SUBTITLE and then CLEAR.

■ Forcing subtitles to be displayed Expert

Even when the subtitles are turned off, some DVDs will nevertheless display them on the screen. This setting allows you to select the language of the subtitles to be displayed with this type of DVD.

Select [With Audio] to display the subtitles in the same language as the currently selected [Audio Language]. Select [Selected Subtitle] to display the subtitles in the language set in the [Subtitle Language] setting.

Make changes to the [Subtitle Off] setting in the Setup screen Language menu in the [Expert] menu mode (page 69). You cannot make this setting with a disc playing.



Settings: With Audio

Selected Subtitle (Factory setting)

When [Other] is selected

When you want to select one of the 136 languages as the main audio language, follow the steps below when the following screen appears.

A language code list can be found on page 78.



1 Use the cursor buttons to select [Other] and press ENTER. The language selection screen appears.



- 2 Use the cursor buttons (◄/►) to select either "List of Language" or "Code".
- If you select "List of Language", use the cursor buttons (▲/▼) to select the language.
 For languages which are only shown as a code, refer to

"Language Code List" on page 78.

List of Languages



If you select "Code", use the cursor buttons (\blacktriangle/∇) to input the numbers of the input code.

Use the cursor buttons $(\blacktriangleleft/\succ)$ to change the position of the cursor. You can also use the number buttons to enter the code.

Code (0~2)



4 Press ENTER to set the new language. To exit the screen without making any changes, press RETURN.

Language Code List

Language codes are used when setting the audio and subtitle 5-language preferences (pages 75-77).

Language	Input-code
Japanese (ja)	1001
English (en)	0514
French (fr)	0618
German (de)	0405
Italian (it)	0920
Spanish (es)	0519
Chinese (zh)	2608
Dutch (nl)	1412
Portuguese (pt)	1620
Swedish (sv)	1922
Russian (ru)	1821
Korean (ko)	1115
Greek (el)	0512
Afar (aa)	0101
Abkhazian (ab)	0102
Afrikaans (af)	0106
Amharic (am)	0113
Arabic (ar)	0118
Assamese (as)	0119
Aymara (ay)	0125
Azerbaijani (az)	0126
Bashkir (ba)	0201
Byelorussian (be)	0205
Bulgarian (bg)	0207
Bihari (bh)	0208
Bislama (bi)	0209
Bengali (bn)	0214
Tibetan (bo)	0215
Breton (br)	0218
Catalan (ca)	0301
Corsican (co)	0315
Czech (cs)	0319
Welsh (cy)	0325
Danish (da)	0401
Bhutani (dz)	0426
Esperanto (eo)	0515
Estonian (et)	0520
Basque (eu)	0521
Persian (fa)	0601
Finnish (fi)	0609
Fiji (fj)	0610
Faroese (fo)	0615
Frisian (fy)	0625
Irish (ga)	0701
Scots-Gaelic (gd)	0704
Galician (gl)	0712
Guarani (gn)	0714

Language	Input-code
Gujarati (gu)	0721
Hausa (ha)	0801
Hindi (hi)	0809
Croatian (hr)	0818
Hungarian (hu)	0821
Armenian (hy)	0825
Interlingua (ia)	0901
Interlingue (ie)	0905
Inupiak (ik)	0911
Indonesian (in)	0914
Icelandic (is)	0919
Hebrew (iw)	0923
Yiddish (ji)	1009
Javanese (jw)	1023
Georgian (ka)	1101
Kazakh (kk)	1111
Greenlandic (kl)	1112
Cambodian (km)	1113
Kannada (kn)	1114
Kashmiri (ks)	1119
Kurdish (ku)	1121
Kirghiz (ky)	1125
Latin (Ia)	1201
Lingala (In)	1214
Laothian (lo)	1215
Lithuanian (It)	1220
Latvian (lv)	1222
Malagasy (mg)	1307
Maori (mi)	1309
Macedonian (mk)	1311
Malayalam (ml)	1312
Mongolian (mn)	1314
Moldavian (mo)	1315
Marathi (mr)	1318
Malay (ms)	1319
Maltese (mt)	1320
Burmese (my)	1325
Nauru (na)	1401
Nepali (ne)	1405
Norwegian (no)	1415
Occitan (oc)	1503
Oromo (om)	1513
Oriya (or)	1518
Panjabi (pa)	1601
Polish (pl)	1612
Pashto, Pushto (ps)	1619
Quechua (qu)	1721

Language	Input-code
Rhaeto-Romance (rm)	1813
Kirundi (rn)	1814
Romanian (ro)	1815
Kinyarwanda (rw)	1823
Sanskrit (sa)	1901
Sindhi (sd)	1904
Sangho (sg)	1907
Serbo-Croatian (sh)	1908
Sinhalese (si)	1909
Slovak (sk)	1911
Slovenian (sl)	1912
Samoan (sm)	1913
Shona (sn)	1914
Somali (so)	1915
Albanian (sq)	1917
Serbian (sr)	1918
Siswati (ss)	1919
Sesotho (st)	1920
Sundanese (su)	1921
Swahili (sw)	1923
Tamil (ta)	2001
Telugu (te)	2005
Tajik (tg)	2007
Thai (th)	2008
Tigrinya (ti)	2009
Turkmen (tk)	2011
Tagalog (tl)	2012
Setswana (tn)	2014
Tonga (to)	2015
Turkish (tr)	2018
Tsonga (ts)	2019
Tatar (tt)	2020
Twi (tw)	2023
Ukrainian (uk)	2111
Urdu (ur)	2118
Uzbek (uz)	2126
Vietnamese (vi)	2209
Volapük (vo)	2215
Wolof (wo)	2315
Xhosa (xh)	2408
Yoruba (yo)	2515
Zulu (zu)	2621

Setting the Parental Lock Level

This DVD receiver lets you set the Parental Lock if the DVD has a parental lock level recorded on it. With Parental Lock capable discs, you can block access to material you feel is inappropriate for your children. Refer to the DVD jacket and the accompanying documentation to see if a particular disc contains a parental lock level.

Make changes to the [Parental Lock] setting in the Setup screen General menu. Please note that changes to the Parental Lock level cannot be made when a disc is playing. Stop playback of the disc before attempting to make any changes.

You cannot select [Level] or [Country Code] until you have registered a password. Select [Password] to register a new password. See "Entering the password" on this page for how to register a new password.



Settings: Password

(For information, refer to "Entering the Password" on the this page.)

Level

(For information, refer to "Setting the Parental Lock Level" on this page.)

Country Code

(For information, refer to "Setting the Country Code" on the following page.)

When a DVD with a set Parental Lock level is loaded

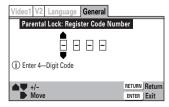
Playback cannot be started until the code number has been correctly input by using the cursor buttons $(\blacktriangleleft/\blacktriangleright/\blacktriangle)$ or the number buttons, and ENTER has been pressed.

Entering the Password

When you select either [Level] or [Country Code], it is necessary to register the password (4-digit code number). You'll be asked to confirm your existing password before registering a new one. Use the following steps at any time you are asked to enter or confirm your password.

1 Use the cursor buttons (▲/▼) or the number buttons to select a number between 0 and 9.

You can also use the number buttons to enter the numbers directly. When entering your password for the first time, or changing it, you will be asked to reenter your password. When using the number buttons to confirm the password, the numbers appear as asterisks, and the cursor advances automatically to the next position.



2 Use the cursor buttons (◄/►) to move the cursor to a different position in the password.
 When all four numbers of the password have been entered, ENTER appears on the screen.



3 Press ENTER to set the password. The password is entered.

Notes

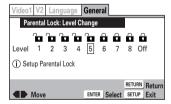
- Be sure not to forget your password. If you should forget it, reset the system, and enter a new password. To reset the system, see "Resetting the DVD Receiver to System Settings" (page 81). Please note that this procedure resets the system, and clears all saved settings, not just the password.
- Some discs lock out violent scenes. Refer to instruction notes on discs.

Setting the Parental Lock Level

Change the Parental Lock level to a higher or lower level according to the settings printed on the DVD disc jacket or accompanying documentation. If you use the Condition Memory function to save the settings for a particular disc, the Parental Lock level is saved as well. Because it is saved in memory, Parental Lock levels can be set for individual discs according to their content rather than a set level for all DVDs.

1 Select [Level] in the [Parental Lock] setting and press ENTER.

The screen changes to the password input screen. You cannot select [Level] until you have registered a password. To enter the password, refer to "Entering the Password" on this page.



2 Use the cursor buttons (◄/►) to adjust the Parental Lock Level.

The lock icons appear "unlocked" up to the selected level to indicate that access is available.

3 Press ENTER to set the new level.

The new Parental Lock level is set and the screen returns to the General menu screen. To go back to the General menu screen without making any changes, press RETURN.

Changing the Password

Change your password whenever you feel it is necessary. However, if you forget your existing password, you cannot enter this screen to change it.

1 Select [Password Change] in the [Parental Lock] setting and press ENTER.

The screen changes to the password input screen. To enter the password, refer to "Entering the Password" on this page.

- 2 Use the cursor buttons (◄/►/▲/▼) or the number buttons to enter the new password.
- 3 When the new password has been entered, press ENTER. The new password is set and the screen returns to the General menu screen. To go back to the General menu screen without making any changes, press RETURN.

Setting the Parental Lock Level

Setting the Country Code

Change your Country Code whenever you feel it is necessary. However, if you forget your existing password, you cannot enter this screen to change it.

1 Select [Country Code] in the [Parental Lock] setting and press ENTER.

The screen changes to the password input screen. To enter the password, refer to "Entering the Password" on the previous page. The Country Code selection screen appear.



2 Use the cursor buttons (◄/►) to select either "List of Codes" or "Code".

3 If you select "List of Codes", use the cursor buttons (▲/▼) to select the country.

For country codes which are only shown as a code, please refer to "Country Code List" on this page.

List of Codes



If you select "Code", use the cursor buttons (\blacktriangle/∇) to input the numbers of the input code.

Use the cursor buttons $(\blacktriangleleft/\blacktriangleright)$ to change the position of the cursor. You can also use the number buttons to enter the code.

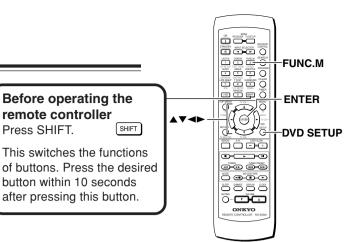




4 Press ENTER to set the new Country Code. To exit the screen without making any changes, press RETURN.

Country Code List

Country	Input-code	Country-code
ARGENTINA	0118	ar
AUSTRALIA	0121	au
AUSTRIA	0120	at
BELGIUM	0205	be
BRAZIL	0218	br
CANADA	0301	ca
CHILE	0312	cl
CHINA	0314	cn
DENMARK	0411	dk
FINLAND	0609	fi
FRANCE	0618	fr
GERMANY	0405	de
HONG KONG	0811	hk
INDIA	0914	in
INDONESIA	0904	id
ITALY	0920	it
JAPAN	1016	jp
KOREA, REPUBLIC OF	1118	kr
MALAYSIA	1325	my
MEXICO	1324	mx
NETHERLANDS	1412	nl
NEW ZEALAND	1426	nz
NORWAY	1415	no
PAKISTAN	1611	pk
PHILIPPINES	1608	ph
PORTUGAL	1620	pt
RUSSIAN FEDERATION	1821	ru
SINGAPORE	1907	sg
SPAIN	0519	es
SWEDEN	1905	se
SWITZERLAND	0308	ch
TAIWAN, PROVINCE OF CHINA	2023	tw
THAILAND	2008	th
UNITED KINGDOM	0702	gb
UNITED STATES OF AMERICA	2119	us



Memorizing settings (Function Memory)

Up to 5 settings can be memorized.

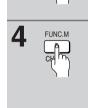


Press DVD SETUP. The Setup screen appears.

Use the cursor buttons (◄/►) to select the menu you want.

Use the cursor buttons $(\blacktriangle/\triangledown)$ to select the setting to be memorized. As each menu is selected with the cursor,

the settings appear below the menu heading.



Press FUNC. M.

"FM" will appear on the screen, and the setting will be memorized.

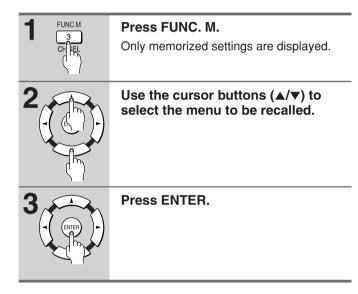
■ To clear the Function Memory

Press FUNC. M again.

Note

Some settings cannot be memorized.

Recalling memorized settings



Resetting the DVD Receiver to System Settings

To reset the DVD player section of this unit, press and hold \blacksquare on the front panel when pressing STANDBY/ON to turn the unit from standby to on.

All program memory, saved settings from functions such as Last Memory and Condition Memory are cleared, TV System is reset to AUTO and all Setup screen menus are returned to factory settings.

Recording Using the Connected Equipment

You can record according to the following using the connected recording equipment:

- Sound/picture of discs played back by the DVD Receiver,
- Sound of FM/AM programs, and
- Sound/picture of the connected source.

Note

Many discs and sources are copy protected. Copy protected sources are impossible to record.

Basic Recording Procedure

1	Set the recording equipment (MD recorder, DAT, Cassette tape deck, VCR, DVD recorder, CD recorder, etc.) to recording pause.		
2	 Select the input source to be recorded, then set it to play pause. To play and pause a DVD video, Video CD, or audio CD, see page 31. To select an FM/AM program, see page 37. To select a connected source, see page 40. Refer to the manuals of the connected source equipment for instructions on how to play and pause. Select Stereo mode to record in analog from the unit's DVD to other equipment. True DTS signals cannot be recorded in analog. 		
3	Release the recording pause set in step 1 to start recording.		
4	Start playback of the selected source in step 2.		

Notes

- If you select another input source during recording, the selected source will be recorded.
- Sound effects described on pages 48 to 53 do not affect the recorded sounds.

Digital recording from the source connected to the digital input connectors to the digital recording equipment connected to the digital output connector

The digital input connector is the DIGITAL OPTICAL IN jack. Select TV/LINE with the Input selector. The digital output connector is the DIGITAL OPTICAL OUT connector.

Recording digital sound signals from sources connected to the digital input connectors using digital recording equipment connected to the digital output is possible unless:

- The recording is against SCMS (Serial Copy Management System) rules (for details of SCMS rules, refer to the manual of the digital recording equipment),
- The digital signals are in bitstream format (the recordable digital signal format is PCM two channel digital stereo sound signals), or
- The sampling frequency is out of the recordable range of the recording equipment (for recordable sampling frequency, refer to the manual of the digital recording equipment). 96/88.2 kHz digital audio signals are not output from copy protected discs.

Analog recording from a DVD Video played using the DVD Receiver

The digital sound signals are converted to analog signals and output to the analog output jacks unless the DVD video is recorded in the DTS Surround.

Although the speakers can reproduce DTS Surround sounds, DTS signals are not output to the analog output jacks.

Controlling a TV connected to the DVD Receiver

By learning a pre-programming code, you can make the RC-505M remote controller able to operate a product from another brand. The buttons that are used for operation are given on page 15.

Learning a pre-programming code

1	Find the 3-digit number for the brand name of the component that you want to operate in the table on this page.
2	Turn on the component that you want to operate.
3 MODE TV/SETUP	While holding down MODE TV/ SETUP, press the ENTER button, and then release both buttons.
4 LAST M CONUM FUNC.M 1 STREETUP TESTIONE AUDIO ANGLE SUBTITLE 4 5 SW MODE DISTANCE LATE INGET T-DIST SW MODE DISTANCE LATE INGET T-DIST IPM 8 DISTANCE DOWN RANDOM	Within 10 seconds, enter the 3-digit code number.
5	 Press the button that you programmed and check if the system operates correctly. If the component does not operate properly, return to step 3 and repeat the steps above.

Pre-programming codes

Note:

If more than one code is given in the table, try the code one by one until you reach the code for your component (i.e. if the first code does not work, then try the next).

BRAND	SETTING No.
AIWA	100, 101
AKAI	102, 103, 104
AUDIOSONIC	105
BELL & HOWELL	106
BLAUPUNKT	107
BRIONVEGA	108, 109
CENTURION	110
COLTINA	111, 112, 113
CORONAD	114
CROWN	115, 116
DAEWOO	117, 118, 119, 120, 121
DUAL	122
EMERSON	123, 124, 125, 126, 127
FENNER FERGUSON	<u>128, 129</u> 130, 131
FISHER	132
FUNAI	133, 134, 135
FUJITSU GENERAL	136, 137, 138
GE	139. 140. 141
GOLDSTAR	142, 143
GOODMANS	144
GRUNDIG	145, 146
HITACHI	147, 148, 149, 150
HYPER	151
INNO HIT	152
IRRADIO	103
JVC	153, 154, 155, 156, 157
KENDO	158
KTV	159, 160
LUXOR	161
MAGNAVOX	162, 163
MARANTZ	164
MARK MATSUI	<u>165</u> 166, 167, 168, 169
MITSUBISHI	170, 171, 172, 173
MIVAR	174, 175
NEC	176, 177
NOKIA	178, 179, 180, 181
OCEANIC	181
NORDMENDE	182, 183
OKANO	152
ORION	184, 185, 186
PANASONIC	187, 188, 189, 190
PHILIPS	152, 162, 191
PIONEER	192, 193
PROSCAN	194
QUASAR	195
RADIO SHACK	196
RCA	<u>110, 141, 197, 198, 199, 200</u>
SABA SAMSUNG	<u>182, 183, 201</u> 202, 203, 204, 205, 206, 207, 208
SANYO	209, 210, 211, 212
SCHNEIDER	103
SEARS	213
SELECO	214, 215
SHARP	216, 217
SONY	218, 219, 220, 221, 222, 223
SYMPHONIC	224, 225
TELEFUNKEN	201, 226, 227
THOMSON	228
TOSHIBA	213, 229
UNIVERSUM	230
ZENITH	231, 232

Check the following guide for the possible cause of a problem before contacting service. Refer also to the respective instruction manuals of the connected components and TV.

\sum	Symptoms	Causes	Remedies	Pages
	The DVD Receiver doesn't switch on.	 The power cord is disconnected. The power cord has slipped out of the unit's AC INLET. There is external noise interfering with the computer circuits of the DVD Receiver. 	 Check the connection of the power cord. Firmly connect the power cord to the unit's AC INLET. Switch off the STANDBY/ON then switch it on again. If not recovered, disconnect the power cord, then connect it again. 	26 26 26
	No sound is reproduced.	 The muting function is activated. The DVD Receiver is not properly connected. The amplifier protection circuitry has activated. (The STANDBY indicator flashes.) 	 Deactivate the muting function. Check the connections to the DVD Receiver. Contact your nearest Onkyo service center. 	42 18-25 —
		Headphones are connected.The volume is low.	 Decrease the volume, then disconnect the headphones. Use the MASTER VOLUME to turn up the volume. 	42 42
Amplifier	No sound or very little sound is reproduced from the center speaker.	 The speakers are not properly connected. The listening mode is set to "STEREO" or "ORCHESTRA." The volume level of the center speaker 	 Check the speaker connections. No sound is reproduced from the center speaker when the listening mode is "STEREO" or "ORCHESTRA." Adjust the volume level of the center 	20 48, 51 30
		("CENTER") is set to minimum.A speaker configuration without the center speaker is selected.	 Speaker. Check that the selected speaker configuration includes the center speaker. 	28
	No picture appears on the TV screen.	 The TV is not set to receive the output signals from the DVD Receiver. The video connection cable is not connected securely. 	 Set the TV to the DVD Receiver's input. Refer to the instruction manual of TV. Check the connections between the DVD Receiver and TV set. 	— 18, 19
	The sound of the playback source is not heard.	Another input source is selected.	Select the appropriate input source.	40
	The buttons on the remote controller and DVD Receiver do not operate.	 Power supply fluctuations or other abnormalities such as static electricity may interrupt correct operation. 	 Switch off the STANDBY/ON, then switch it on again. If not recovered, disconnect the power cord then connect it again. 	26
	The disc tray comes back out automatically, shortly	The disc is not placed properly on the disc tray.	Use the disc tray guide to align the disc.	33
	after the disc tray is closed.	 The disc is dirty or warped. Region number does not conform with this unit. 	 Refer to "Notes on Discs". If the region number on the disc does not match the number on the DVD receiver, the disc cannot be used. 	8, 9 4
	The DVD Receiver does not start playback.	No disc is inserted.	 Insert a disc. (Check that "DVD," "VCD," or "CD" is lit in the DVD Receiver's display.) 	33
		An unplayable disc is inserted.The disc is placed upside down.	Check the playable discs.Place the disc with the playback side	8 33
í Î		The disc is not placed within the disc tray guide.	 down. Place the disc within the proper guide on the disc tray. 	33
CD/Audio CD)		 The disc is dirty. The parental lock function is activated. 	 Eject the disc and clean it. Deactivate the parental lock function or change the parental lock level. 	9 79
IDEO CD/I	The playback picture is occasionally distorted.	 The disc is dirty. It is in fast forward or fast reverse playback. 	 Eject the disc and clean it. Sometimes a small amount of picture distortion may appear. This is not a malfunction. 	9
DVD (VIDEO	Brightness is unstable or noise is visible on the playback picture.	Copy protection is activated.	 Connect the DVD Receiver directly to the TV. Avoid connecting the DVD Receiver to the TV through a VCR. 	18, 19
	The picture from the DVD Receiver doesn't appear on the TV screen.	 The TV is not set to receive the output signals from the DVD Receiver. The DVD Receiver is not properly connected. 	 Set the TV to the DVD Receiver's input. Check the connections to the DVD Receiver. 	— 18, 19
	Settings are canceled.	 When the power is turned off by power failure or by unplugging the power cord, settings will be canceled. 	Before unplugging the power cord, press STANDBY/ON.	

	Symptoms	Causes	Remedies	Pages
	Playback doesn't follow the course of the disc's programs.	The DVD Receiver is in repeat playback mode, memory playback mode, or random playback mode, etc.	Resume normal playback.	56, 58-62
	The buttons on the remote controller and DVD Receiver do not operate.	 Power supply fluctuations or other abnormalities such as static electricity may interrupt correct operation. 	• Switch off the STANDBY/ON, then switch it on again. If not recovered, disconnect the power cord, then connect it again.	26
	Smark appears on screen.	 The selected function does not operate for that disc. 	-	31
	Mark appears on screen.	 The operation is prohibited by the DVD receiver. 	-	31
	When making changes in the Setup screen menus, m is displayed.	 There is a Video CD, CD or MP3 loaded in the DVD receiver and the setting that was changed only applies to DVD performance. 	 The setting will be effective the next time a DVD is loaded. 	65
	Some settings in the Setup Menu do not appear.	The [Setup Menu Mode] is set to [Basic].	Set the [Setup Menu Mode] to [Expert].	69
dio CD)	No sound is reproduced.	 The pause mode is engaged. The volume level of TV or DVD receiver is set to minimum. 	 Press ► or II to exit the pause mode. Increase the volume level. 	31 42
DVD (VIDEO CD/Audio CD)	The screen is stretched or aspect does not change.	 The multi aspect setting is not appropriate. The TV is connected with an S-video cord. 	 Change the aspect setting in the [TV Screen] setting in the Setup screen Video 1 menu to the screen type most appropriate to the TV or monitor you are using. If you connected your TV with an S-Video cord, in rare cases the TV picture may appear stretched. In this case switch the output from [S2] to [S1] 	70 71
	The disc containing the MP3 tracks won't play.	 The disc is not ISO 9660 compatible. Files are not MPEG1 Audio Layer 3 format, 44.1 or 48 kHz, fixed bit-rate. 	Check the disc.Check the file format.	8 8
	Some MP3 tracks appear to be missing from a disc.	 The track name does not end in ".mp3" or ".MP3". More than 251 folders and tracks are recorded on a disc. 	 This system will not recognize file that does not end in ".mp3" or ".MP3" as an MP3 track. Change the track name. This DVD Receiver only recognizes the first 250 folders and tracks on a disc. If there are more folders/tracks than this, 	8
		A multi-session disc is inserted.	 you will not be able to play them. This DVD Receiver is not compatible with multi-session discs. If the disc is multi- session, you will only be able to play tracks recorded onto the first session. 	8
		 The disc contains variable bit-rate MP3 file. 	• Be sure to make MP3 CD with fixed bit- rate setting.	8

Troubleshooting

	Symptome	Causes	Pomodios	Pages
	Symptoms		Remedies Switch the frequency receiving mode to	Pages
Tuner	Too much noise is heard or sound is interrupted occasionally. (The FM STEREO indicator does not light steadily.)	 FM stereo waves may produce a hiss noise when a certain level is reached. The position or direction of the FM antenna is incorrect. The station is too weak. 	 Switch the frequency receiving mode to mono. Adjust the position, height, and direction of the FM antenna. Connect an FM outdoor antenna. Try to use an antenna with more elements. (For installation of the outdoor antenna, consult your nearest dealer as it requires special skills and experience.) 	37 24, 25 24, 25
	The sound is distorted or sound volume decreases.	 The radio wave is distorted. Cars are running or airplanes are flying near the house. 		_
	Sound is excessively distorted.	 There is a tall building or a mountain nearby. (The waves transmitted from the transmission center (direct waves) and the waved reflected by buildings or mountains (diffraction waves) interfere with each other causing multi pass distortion.) 	_	_
	No preset channels are selected.	• The power cord is unplugged, or the main power is switched off, for a long time.	The preset data in memory is lost. Preset the radio stations again.	37
Other	Sound is reproduced from the speakers but not recorded.	 The sound system you are trying to record is DTS Surround. 	 DTS Surround sound is unable to be recorded. 	_
	Late Night function cannot be used.	 Playback source is not Dolby Digital encoded. 	 Check that the Dolby Digital indicator lights up on the display. 	49
	An RI connected component cannot be	The signal input is not compatible.	Use the Input Selector to select the correct input.	40
	controlled by the remote controller.	 The audio connection cable is not firmly connected to the jack. 	 Firmly connect the RI audio connection cable. 	23
	Playback timer or	The current time is not set correctly.	Reset the current time.	43
	Recording timer function does not operate.	 The playback timer is set to "off". 	 Set the playback timer to "on". 	47
	·	 The recording medium is not compatible. 	• Make sure there is an MD, CDR or Tape inserted in the recording component. Also check that the timer is set correctly.	_
Remote controller	The buttons on the DVD Receiver operate but the buttons on the remote controller don not operate.	 No batteries are inserted in the remote controller. 	Insert new batteries.	17
		 The batteries are worn out. The remote controller is not pointed at the remote sensor of the DVD Receiver. 	 Replace with new batteries. Point the remote controller at the remote sensor of the DVD Receiver. 	17 17
emote		 The remote controller is too far from the DVD Receiver. 	Operate the remote controller within 5 m (16 feet).	17
μ Έ		Any wrong MODE button is pressed.	Press the appropriate MODE button.	12

This unit contains a sensitive microcomputer, which under certain circumstances might fail to operate due to excessive noise interference. If this happens, press the DVD Receiver's PRESET MEMORY button and STANDBY/ON button at the same time until "CLEAR" appears in the DVD Receiver's display. The DVD Receiver turns into the standby mode, then all the custom settings for the receiver section of the DVD Receiver will be erased. Please repeat the custom settings from the beginning.

Specifications

AMPLIFIER SECTION]	
	All channel	s 25 watts	per channel min.	Damping Factor	40 at 8 ohms		
	RMS. into 6 ohms two channel driven,			Input Sensitivity and Impedance			
			e than 10% total		-	-21 to -15 dBm	
Continuous power output	harmonic d (DIN)	listortion.		LINE (IV/LIN	E, MD/CDR/TAPE)	200 mV/50 kohms	
		21 watts r	per channel min.	Output Level and	l Impedance		
RMS. into 6 ohms two channel driven,			DIGITAL OPTICAL OUT -21 to -15 dBm				
Operations Designed	1,000 Hz			,	REC OUT (MD/CDR/TAPE) 200 mV, 2.2 kohms		
Continuous Power output (EIAJ)		26 watto or	er channel min.		PRE OUT (SUBWOOFER) 1 V, 470 ohms Frequency Response 20 to 30,000 Hz : +/- 0.8 dB		
			channel driven,	Acoustic Contro			
	1,000 Hz		- ,		2: +9 dB at 82		
Total Harmonic Distortion 10 % at ra					+6 dB at 10,000 Hz		
IM Distortion 10 % at ra		1 watt output ated power 1 watt output			Signal-to-noise Ratio100 dB (0.5 V INPUT LINE)Muting-50 dB		
				wating			
	/o at / W	suput					
DVD SECTION	• • • •						
		tical non-contact 9 m/s (Single Layer)		LaserSemiconductor laser, wavelength 650 nmFrequency response10 Hz to 44 kHz (96 kHz)			
,	3.49 m/s (Sir 3.84 m/s (Du		1	Frequency responsion Signal-to-noise ra		Z (96 KHZ) More than 100 dB	
		Solomon Product Code			Signal-to-noise ratio (digital audio)More than 100 dBAudio dynamic range (digital audio)More than 93 dB		
	PAL/Auto Mo			Harmonic distortion (digital audio) Less than 0.025%			
Regional restriction code European area: 2 South-east Asian are			2	Wow and flutter		d of measurability	
			3 merican area: 4	Operating condition	Operation statu	5°C to 35°C (41°F to 95°F), us: Horizontal	
	PRC: 6				operation statt		
Output Level and Impedan							
	1.0Vp-p, 75						
	C: 0.286 Vp-p, 75 ohms						
(Except European models)	Pb, Pr: 0.7 V	′p-p, 75 oh	ms				
RGB (European models)	0.7 Vp-p, 75	ohms		I			
TUNER SECTION							
Tuning Range		FM: 87.50	0 to 108.00 MHz (50) kHz steps)			
	AM: (South American models)		(Other models)				
Usable Sensitivity		530 to 1710 kHz (10 kHz st FM: Mono 11.2 dBf, 1.0 µ\					
) µV (75 ohms IHF)) µV (75 ohms DIN)			
		Stere		$\mu V (75 \text{ ohms DIN})$ $\mu V (75 \text{ ohms IHF})$			
		5.010		μ V (75 ohms DIN)			
		AM: 30 μ	V				
50 dB Quieting Sensitivity	,	FM: Mono Stere	,) μV (75 ohms) .0 μV (75 ohms)			
Capture Ratio		FM: 2.0 d	,	ο μν (75 onins)			
Image Rejection Ratio			B (South American r	models)	85 dB (Other models)		
		AM: 40 dl	В		1		
IF Rejection Ratio		FM: 90 dE	3	Harmonic Disto	FM: Mono	0.2 %	
		AM: 40 dE			Stereo	0.3 %	
Signal-to-noise Ratio		FM: Mond		_	AM:	0.7 %	
-		Stere	eo 67 dB, IHF	Frequency resp Stereo Separat		5,000 Hz (+/– 1.0 dB)	
Alternate Oberright Att ()		AM: 40 dE		Stereo Separat		t 1,000 Hz	
Alternate Channel Att. (+/- Selectivity			55 dB, IHF , DIN 55dB, IHF	Stereo Thresho		,	
AM Suppression Ratio		FM: 50 dB		Output	FM: 750 mV		
				1	AM: 150 mV		
GENERAL							
Power Supply Power Consumption Power Consumption (standby more		AC 120 volts, 60 Hz : 130 W mode) : 2.0 W		Power Supply			
				Power Consumption : 120 W Power Consumption (standby mode) : 2.6 W			
Fower Consumption (Stat	naby mode)	29 W (*)		Power Consum		2.6 W 29 W (*)	
Power Supply		()	240 volts, 50 Hz	Dimensions (W x		mm $(17^{1}/_{8} \times 3^{3}/_{16} \times 14^{7}/_{16}$ ins.)	
Power Consumption		: 120 W		Weight	7.0 kg (15.4 lb		
Power Consumption (stat	ndby mode)			/* \ }*/!	and and the second s		
		29 W (*)		(*) When clock di	splay is on.		

Specifications and features are subject to change without notice.

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